

actacatgta ccttgtcttg tactgactat aactcccact ttttaatcac ttttaattcaa 180
gtggattaat ttaatgtcat gtgaaaaatt gagtatattc tttaaaaaca tggcactatc 240
tatgaacaat gttcctctaa tttgtaacct atcggttagac aattaatgaa gttggcagaa 300
gacgttgatg tcgttgatta atatgctccc ctaataataa tttcgggaca tctctaaagg 360
tagtatcata attaaattta aattgaagggt ttcttaacaa gtaattacta attaagaaat 420
attaaaaaaaa ttaataatat at 442

<210> 3500
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3500

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tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac cttctttggag 180
gatagacatg tggaggagta actggtttct tgagggtgcc ataggtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcanttg tcaccaagca ttctgactnt 300
gtgaagttaa cattgaatcc ttcacacac aactgactga tgctgatcaa gtttgcatgc 360
cagcccttca ccaccagtac tttgttcaga ctaggaagac catcatggac tagctttccc 420
at 422

<210> 3501
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3501

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aaaagttatg gtcctttgta ttggatcaga gtttcaacat tcaatttcga gcgtctcgat 120
atgttacagg actcaatccc acatcacaga aaaaagttat cgtcgtttga gttggctcag 180
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca gacatccgag 240

aaaaaagtta ttgtcgtttg aattgggtca gagcttcaac attcaatttc gagcgtctcg 300
 atatgttacg ggactcaatc agacatccga gtaaaaattt attgtcgttt gaattggctc 360
 agagcttcan agttcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 420
 ag 422

<210> 3502
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3502

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 tccatatgtc atgtgcctga atcggacctc cgtgagaaaa tctatgacca tttgaacttc 120
 tctagagctt ccgttgtgta atttcgagct tctcgatata tgatgtgcct gaatcggaca 180
 ttcgagtga aagttgggac aatttcaatt tctccagagc ttccggtagt caattatgag 240
 cgtctcgata tgtgatgtgc ctgaatcgga gctccgagtg agaacttatg accatttgaa 300
 ttgctctaga gct 313

<210> 3503
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 3503

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 aaattgactt ccgagttaaa cggtattggc gtgggaaaat cctcagagct ttggaattca 120
 attgcgagcg tctcgatata ttacgggtct caactcagac atccgagtaa aaagttattg 180
 tcgtttgaat tagctctgag gttcagaatt cacattcgag cgtctcaata gattacggga 240
 ctcaataaga cattcgagca aaaagttggt gtcgcttgaa ttagctaaga gcttcacaat 300
 tcaatttcga gcgtctcgat atattatggg actcaatccg acattcgagt aaaacgggat 360
 tgccgcttga aaatcctcag agcttcggta ttcaatttcg agcgtgtcga tatattacgg 420
 gac 423

<210> 3504
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3504

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 tgtagttaa ctttaattatta gcattaaatt tataatactt ttccaaattt atctttaatt 120
 ttatagggga cctattcatc ttctctaate ttcataggag agagaaagag .ataattcatg 180
 gtatttttagt caaaaatagtt aatgcacccat atagatgaaa taaaatctta taataagaaa 240
 caaaaaaatt tggtgactat gtcttgtaaa taaggactaa gttagtattt taattaaatt 300
 gatgtttgaa agtttaggta gttggatcag tctttggtgc cattgttga ggcacgaatt 360
 tggatgaaag gaagcgatgt gcagaggagg tagccaagcg aaatgtatca ggtttctttt 420
 tcttttggtg gtnntgaaat tgcgattagt gggtttgaac cttctttaat tatac 475

<210> 3505
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3505

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 taatcgatta tcagtgtatc tgaacgttga aattcaaatt caattgtgaa gagtcatatc 120
 ttttcataaa atgcattgtg taatcgatta catgattatg gtaatcgatt accagtgaca 180
 agttttgaat aaaagggtcaa gagatgtaac tcttccaatg gttttctcaa agattttctc 240
 aagggttataa ctcttccaat ggttttcttg accagacatg aagagtctat aaaagcaaga 300
 ccttgacttg cattcaaaca actnttagaa cttnttaga acctcttgaa caacttttga 360
 gaaatcttga aacctttcct tctcatcttt cttcttcttc ttcctttgcc aaaaagcttt 420
 ctaagttttc tgttttccaa acctgttct tctacagaaa acaaaagt 468

<210> 3506
 <211> 477
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3506

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acattattag ggattcggag ttgaatcacg aggaacaacc ttgaagggtc ctaatccttt 120
tgctataaaa caaggtaaca taacaaaaat aaaaaaaaaa tgtatatgaa gaaaaatgga 180
tgttcaacat catggtcatt gatacacatg gtgcacaaga taagaaagtc tacactaatt 240
gtagatgtga ccatatgaat ctctcaaagg acttttataa tgttacaagg gatatacata 300
actaaacgtt gactacaaat tataaaagag gtctcttttg ttgttatgtc aactttcagt 360
gcaaacaaat agagggttnt caagggtcaa ggagaatgaa ttccttaaga tacanaataa 420
gttgggttga ttggaacaaa caccaagtac cagataaagt ttatattctt catttca 477

<210> 3507

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3507

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gtggccaagg atgcatggga tctctgaaa accactcatg aaggaacctc caaagtgaag 120
atgtccagat tgcaactatt ggccacaaaa ttcgaaaatc tgaatatgaa ggaggaagaa 180
tgtattcatg actttcacat gaacattctt gaaattgcc aatgcttgac tgccttgnga 240
gagaggatga cagatgaaaa gctggcgaga aagagcctca gatccttgcc taagagattt 300
gacatgaaag tcaatgcaat agaggaggcc caagacatat gcaacttgag agtggatgaa 360
ctcattgggt cccttcaaac ctttgagcta ggactctcgg atagggtga acagaagagc 420
aagaatct 428

<210> 3508

<211> 344

<212> DNA

<213> Glycine max

<400> 3508

agcttataat atatacgatac gctcgaaatt aaacatctga aactctcgta taattcaaat 60
 agtcataact attcacacgg atgtccgatt caggcttata atatatcgat acgctcgaaa 120
 ttaaacaatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggatatccga 180
 ttcgggcaca taatatgtcg agaagctcga tattgaacaa cgaaagttct ttacatatca 240
 aatggtctta acttttcaca cggatgtccg attcaggaat atcacatatc gagacgctca 300
 tattgaacac accaagctct tgagaaattc aattgggcct aact 344

<210> 3509
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 3509

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 agttatgtcc ccgaatcgga catctgtgtg aaaagctatg accattcgat tttctcgaga 120
 gcttccgttg atccacctcg agcgtctcga tattgtacga ccccgaattg gacatctgtg 180
 tgaaaacgta tgaccattca attttctcga gagcttcctg tgaacaattt cgagcgtcta 240
 gatgtggtat gtccccta atcgacattcg agtgaaaact tatgaccatt cgagtttctc 300
 gagagcttcc gatgttcaat ttcgagcgtc tcgatatat 339

<210> 3510
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3510

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 nttatntttt ttgttattgt tcttccaatc ttattcggtc ttccttcgac acagacacat 120
 ataagcaaaa tgcattatct aaagtaaatt attgttatct aaacctctgc cgatcctata 180
 taataatatt gcatatgcat ntcttgaaat ggaatcttat acacatatata ttaagtata 240
 agccatcatg tttaatgtgt caatcaagca tatgaactaa attattatct ttagaaact 300
 aattatgaat actaattaat gaagatgatt gcttagtgng gaagcatata tgatgcatta 360
 actgatgaag tatgaccac aaattaatat ataacacata tcacaaagtc aaattaatag 420

agctagttga tcaatttaca aacaaaatt

449

<210> 3511
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3511

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ctgaaattgc atattctgga tggtcatttg cctcactaac tcctctaagg aaggttgaga 120
aggggcctga cttgcttggt gtctttgtcg ctattgctgc attggaggag gaacatatgg 180
cctgcttaga ctatcaacat tctagaaatg agggacaaat tgttggtgct gctggttggtg 240
ttgtggagga ttgcccac tcagattcgg atgattcctc caacctggat tgtatttgat 300
gcttgaaaga ttataattat tctgctgatg ttgagctttt tgttgagggg gtctattata 360
aatgtatgca gcataggctt cacgttgctc attgactcca ggttgctgca aagaacgata 420
gagatctgta tggatgatcaa cagaagaaca t 451

<210> 3512
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3512

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tagagtacct cttttcaaat gtaagtgggt gaatggaaac acaggtgtgc gtaaagacaa 120
aatgggattc actttagtag accttaaaaa agttggttac aaggacgacc cattcataat 180
ggcagcgtaa gctcgacgtg tgttttatgt agaagatcca tgcgactcta gatgggcggt 240
ggttttgcaa gggagaacaa tttgtatcgg tcaccatggt gatggatcaa cacttgatgt 300
cactgacatg ccgtctttct ccaaagatat gccttcaagt actgttgaaac aggaagagga 360
tgatgtatat gcaaatac 377

<210> 3513
<211> 473

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3513

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 tatggtatat cttcttataa tgagtcaacc aatgacagat gttacccaaa aagagccttg 120
 aagcatataa cctctaggcc caaattctaa accagtaaaa tgtaagatgt gctagtgaga 180
 tgaaatgtga tgcagtgctt gttaatgaag ggaaaaaaaa gaagctaaaa agctccacca 240
 tggcttgaaa aagaattgat aagggtttct tattttcggg aatctattat atggttgggtg 300
 cacaataatt tagaaggcag gatatgtata gaagtntgta tgaccaacta aagtgttcat 360
 aagctaagta ctccacaaac ttatgtacct gtggccatat attcaggagc aacatagcca 420
 tatgtgcccc ttacccttgt agagacatgg ctcttatcac cagctggtcc atc 473

<210> 3514
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3514

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 gtcaaccgtt aataaaaaga agacaagagg tatcatgaga gtaataaaga aatgaatctc 120
 atttttcata acagaggaaa ctgtgatgac ttatctacaa aacccataag aaaatagaaa 180
 tgcaacaaca ctttagcact caaaatgcaa tttcatcctc aattaactta aatatattnt 240
 tagtctttta aatttgagtt acttaaatat gtttgtggaa tgtagtata attgttttgt 300
 aaaaaattcc aatgtaaaaa gaatagatat gagtagtaaa ctttattaaa agacaattga 360
 tcgaataact tcccgcataa aattattgta cattaactgt aactcttaag taatatgatg 420
 atatagaata tgtacataat aatatatcac 450

<210> 3515
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 3515

agcttcctat ggatttaata gtgtcaccat agttctccaa gtaaaccctat caagaggtga 60
tccctcttgc tgtctgattn tcaattggac aagcacgtaa attggaattg tgagcttaac 120
accaattaca atgttgacca gagcataata attctgaccc atcattgcct gacatgtggt 180
gaggccttgg aaaggttctt ttaccaactc atagtangtg tcattcttgc ttgtagtgtg 240
nggtgtgtta tactggtaga tgtttcctga aacaaaacat angaacaatg attgacttat 300
cggactntnt aatcatacat tataaaaacta attatttcac acttcgtgtt aattaagtac 360
tagtattaat gacaaaatga gcaataacat attgaatcct tatttgtggc agcataagct 420
cggagacact ta 432

<210> 3516

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3516

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aatggtcata actntttaca cggatgtccg attcggggcg ataatatgtc gagagtctag 120
aaattgaaca accgaaactt ttgagaaatt catatgggtca caactattca cacggatgcc 180
cgattcaagc ttatgatata tcgagacgct cgaaattaaa cgtcggaaac tctcgggaaa 240
ttcaaatagg cataactatt cacacggatg tccgattcgg gcgcttaata tgtcgagagg 300
ctcaaaattg aacaacggaa gctcttgaga aattcaactg ttataacttt tca 353

<210> 3517

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3517

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tgtccaaagc aacgaggggt gaacagttgc tgagcgtggg tggaataaaa cccgtgaacc 120
ggttggtctg caggtaaagt tccttcagaa tattattatt cccagcgtca ccaccgcaca 180

gcgttgctcg gattgagccg ctgaagttgt tggagctaag atccagcgac tctaaagtgg 240
 agagcttcgt cagagactcc ggaaggggac caaggaacgc gttgaacgcc accgcgagct 300
 ctntgaggct nttcattggc gtgagaacgt ccataggcag cgcaccggcg aagaggttgc 360
 tggagatgtc gaaggactga agagaagtgc aagcgccgaa cgcttcggng agagcgcctg 420

<210> 3518
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3518

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 atgcaaggaa gaacttctcc aagaacaccc tcttaaggtc atcccaattg aaaatagacc 120
 tgtgagcaac gtagtataac caatcttttg ccactccctc tagagaatga ggaagaacct 180
 ttagaaaaat atgatcttct ttgacatcac ggggcttcat ggtggaacaa acaatatgga 240
 actccttaag atgcttatga ggatcttcac ctgcaagacc atgaaac 287

<210> 3519
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3519

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 ttggatatct aaatcaaadc ccatcatatg gtcacgaga agttctgatc ttatattcgg 120
 ctctcagtac atgtgatcct ggtgatctca tggaaacat ccagaaatgc aaaaagagta 180
 aaataagggtg ctcagtcatt ggtcttgcag ctgaaatggt tgtgtgcaaa catctctgcg 240
 aggaaactgg agggacttat tctgttgac tagatgaggt tagtttggtg attttgatga 300
 tacccatgta gatgtagtac aaatacaaat aattatctat gannagttat tgaatnttta 360
 tagtcaagca accttaattt aagcaagtac ttaagatatt gctgatcacc ttagaatttg 420
 tttgcatctt tcaagtgttt gaaattcatg aatgtatgca ttat 464

<210> 3520

<211> 467
 <212> DNA
 <213> Glycine max

<400> 3520

tagcattact tattacccaa agagtttgtc attcatagtg atcacgagtc cttaaaatac 60
 ttaagaggcc aaggaaagct taataagagg catgctaagt gggtagagtt attagagcaa 120
 tttccatatt tcatcaaaca taaaaaaggg aaagggaatg tactggctga tgcgctgtct 180
 aggagacatg ctttactagc tatgcttgaa actaaactgt ttggtctcga gtctatgaaa 240
 gacatgtatg tgaatgaagt ggactttgct gaaattctag ctgcatgtga aaagttttct 300
 gaaaatgggt actataggca taatggattc ttgtttaaag cagataaatt gtgtgtgcct 360
 aagtgttcca ttagagagtg gcttgtgagt gaatcacata acgaggggat gatgggacac 420
 tctgtgattc aaaagaccct gtaaattctg caagagcatt tcttttg 467

<210> 3521
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3521

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 ctaagatttt gcatacacct ccttcaaagt gaagtgtgta gtctctctcc atcatttggc 120
 caatgcttag aagattttct tttaggctag gaactagtaa gacatcatgg atgagtcgcg 180
 tacatttata tgtctccacc atgacagtgc ctttngcctt tgatttaacc acacttacat 240
 ttcccagtcg aactntgact ntgacagact catcaatact ttgaaaata gtctcatcct 300
 tggccatgtg attgctacat ccactatcca agtaccagct tcttcccttt cctttttattg 360
 agtcttgagt ggcgtagaac gtacattggt cttgatcatg ctctctgtg atattagctt 420
 gatgcctatt tttggtgcga caattt 446

<210> 3522
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3522

agcaccta at gtcataatag atgggaattg tgtatcttaa cataagagat ttcagatgga 60
ctttaatcat aatccccacag ctgacctttt cactgagatct ctacttaacc ctttggttaa 120
atgatcggcc aataaatatg cacatagaat cattagattc tagcatctcg tgactctata 180
accgagttca cagcaacaga atcattagat tctagcacat agaacttata tgcttttagaa 240
tgttcagctg atccaataaa tatgcaatct atacctcttt cacctatggt tttcctttta 300
ggttctgtaa gcctgactac agccctacat ccncaaattt tgagataact canattaaca 360
tagcctcacc ccanaatcct tactttaaac ccgaatagga taacatggaa ttcaccattt 420
ctttcaaggt tctattcttc ctttcagcta caccattct 459

<210> 3523

<211> 437

<212> DNA

<213> Glycine max

<400> 3523

agctagccat ttaaaaaggc attgttgata tcaattttct gaagatccca atgaaaggaa 60
gtgactaaag tcagaatagt tctaattgtt ataggtttca caactgggga aaatgtttct 120
ttgaaatcaa aatcaggctg ttgatggaag ccttttgcta caagacgtgc cttgtactta 180
ctgacagacc catctgaatt atgcttgact ctaaaaaccc acttgcaacc aattgggtgc 240
ctagtaggag gtttaggaac cagttcccat gtattgtttt tgagtagtgc agccatttct 300
tcatccatag catctttcca cttaggatct ttaagtgtg ttttgacagt tttaggcaca 360
gcatgagtta gaagcaaggt tgggtggagt ctaggcttga caattccatt tttgatcta 420
gttgatcatag gatgaat 437

<210> 3524

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3524

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aggactgaag attaatcttg ctaagagttc ttttggtgct tttggagtat cagctcaatg 120

gaagcacctc gcggccaagt atttgaattg cagcttgatg gcttttcctt ttgtgtacct 180
 gggattcccc attgaggcca atccgaggcg gagtagaatg tgggattcca ttattcacia 240
 atgtgagaga aaactctcaa attggaagaa aaggcatatc tcattcggng gacgagtac 300
 actgatccaa tctgttctaa cttccatccc tatctttttc ttttcttttt tcaggattcc 360
 tcaatcgggtg gcaaccaaat tagtaaagat tcagcgtgta ttcctttgng gaggggagca 420
 tgatcaaaaag aagatagctt ggataagttg 450

<210> 3525
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3525

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 catacaagag aaggtggaga acacactctt tcttccttnt cagaatatat acacaattgt 120
 catacctatt tctgatgaag ccatacctga tcaagaactc atcaaacttc aaataccaca 180
 ttcgagggtc tngcttcagt ccatacaaag attttttcaa caaacacacc ttgttctccc 240
 ctctttcaaa accttcaggc tgattcatgt aaatgggttc cttcatattt ccatgaagaa 300
 aagcagtttt aacatctagc tattcacgtt ccaaatcata ctgatttac 349

<210> 3526
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3526

attgaaatta aaagacatta caagtgatag ttataagggtg atgtatctaa aattgattga 60
 aacagtggcc aaacattaat tatacatcta tttatttaaa atatactaca acaaatggag 120
 aattttaaaa ttgtgtatta ggataataat ttttttcttt aattgtgtga agactttacc 180
 cgtattcaca ccgaaatcaa tctcttggtt taaattcttt tgaactttat tagtttgagt 240
 atggtgtatt atgctcttct atagaagctt atatntatag tgttaaagaa actatgaatt 300
 tgatcttttt agaagagaga ttgatttac aataatctca ttttcttta ttntaataaa 360

ctctccgatt taatgcagag atacttntca cataatcaca tgactaaata taagagaaga 420
 ttgattatat attaattata taacaataaa agattattcg tatntttat 469

<210> 3527
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3527

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 aaattaaaga gtgagtgtat aatacaaatc tgctctttcg gcatgatttt gcttttctgc 120
 ttttcctaac acattcaaag cagatccctc acgatataaa ttatcttcag ccctaactgg 180
 attgactttt tatcttgtaa aaacaacata tttcggaaac atcaattgag tagataaaaa 240
 ttccataatc ataccaatc aaacatgtca accactaaca tctttcaaag gaaagataac 300
 tgaagattgc cactgaaaca tgccataata tcattaattc attattattc agattcagac 360
 acttccattt aacatgagta gattcccttc ttattttcaa aaaacaacac anagttaggg 420
 gttaattaaa aaatcactgt tatattttatt tatgtgtgga tcacct 466

<210> 3528
 <211> 260
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3528

tgtattatac gcttgaatcg acctgagtga gaaagatatg accatttgaa tttatctaga 60
 acatacgtgg atcatatttg aacgcctctg tctgtgatgg accttaatcg gacctccgtg 120
 tgaacaggta tgaccatttg aattttctga gagcttccgt tgttcaatgt ctagcgtctc 180
 gacatattat gcgcccgaat cggacatccg tgggaaaagc tatgaccatt tgaatntctc 240
 gagagcttcc ggtgttgaat 260

<210> 3529
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 3529

cgagtgcctg tatattgatg cgcttgaaat cgtcattcga gtgaaaagtt atgaccattt 60
gaatttctcg agagctttct atgtttaatt ttgagcgtct cgatatatta tacgcctgaa 120
tcggacctca gtgtgaaaag ttatgaccat ttgaatttct tgagagcatc cgttgatcat 180
tttcgagcgt ctctatatgt gatgcacctt aatcggacct ccgtgtgaaa aggtatgacc 240
atttgaattt ctcgagagct tccgttggtc aatttcgagc gtctcgacat attatgcgcc 300
cgaatcggac atccatggga aaagctatga ccatttgaat ttctcgagag 350

<210> 3530

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3530

agctntctat gcatagaata ttcaaggaaa atactgtcat ctgacttagc atcaaatttt 60
cctaagttat cttttccatt attcaatata naacatttac aaccaaagat atgaagatgt 120
gagatgtttg gttntctgcc attgaacaat tcatatggag ttttctttaa aatgggtctt 180
attaaagccc tatttaaaat gtagcacgca gtgttaacgg cttcagccca aaagtttttt 240
ggaagaggag tatcatttaa taaagttcta gcaatctctt ccnagatcta tttttccttt 300
ccacaacacc atttt 315

<210> 3531

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3531

agcttgagga gtaacattaa atttcagtct agcattttca tctgtttatg agtataaatt 60
ataaccactt ttcacatggt agcattatta gaatgcttca ttaatattat tttattgctg 120
taccatcttg cttccttatt gtcttttagg tttccatttc tacttttttt ctctagaaaa 180
aagcttggtg agttagaatc ttttaacaact tgtgctgttc atggacattn gtgtttctaa 240
ctatgacaat cttctgtttt aggctgttaa aatattaacg acagattatg aaccctcaga 300

tttagacatc ctttatgctg agggagttac ttcataat ggngtggctt gtgtggagtt 360
 ttcatttccc aatcagcttc tgacgaaact gttgacacta ctgatctaca tgattctttg 420
 gtcaggtatg tgaaaa 436

<210> 3532
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3532

ngtatattgt cttattcaaa actggaccac tntcatattc ttctttcgca ttggcataat 60
 gttcaattac tgtcaaggct tttggagcat ctataacttg ttcaactata ttgtgtgcaa 120
 catttcgggt gataagctgc atcaaatctc tctttttcct ctgtattctt tcagcacaga 180
 aagtattttt tggttctcaa ttgcttggca actatagttt gtatctctcc tttgacgac 240
 ttcttccgta tcgcatccag agaagcccc ttctcaagct cttctaacaa tacttttctt 300
 gcttcctcaa attccatcta attcaattaa gcagtgagtg ccaaaaagta ttgttagaga 360
 aaatgaaata tgatngacaa tctaagtaat taatatttaa tactcagcag aaaaaagaag 420
 aaatcagaaa agatgttata aagttacaag ttgttggtcc 460

<210> 3533
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3533

agctttntat tctaatttag aaatccatga aggttctcta aactctgaag tttatgggat 60
 caagatgggc attgaccaat ccctatttta tgatttaacc aaattgcta gtgaagggtg 120
 gccttttgag ggtgcactga ttgatgaatg gaaattcgat ttctctatgc atgatgcccg 180
 ccggttggtt tgcaccaacc aagcggatat gaccggaaga cttcttgctg gttcattggc 240
 ttttgaaagt cgcacccctc attaccttat agtttgcatt ntgcttcta gatcttcaaa 300
 ccttgcccaa gtttctgaag aagatctca 329

<210> 3534
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3534

gttttaagtt cttcctcana actgtcctaa gcaaagtttc caaagtccta ttatcaactt 60
 ccgtttgccc atcggtttgt gggtgacaag tggttgaaaa taacaattta gtgcccaact 120
 tgctccacaa agtcctccaa aaatggctta ggaacttaga gtcctatca ctaacaatgc 180
 tccttggcaa accatggagt ctcaaatct ccttgaaaaa caaatcagcc acatgggaag 240
 catcatcaac tnttttacat ggaataaaat gagccatttt agaaaaccta tcaacaacca 300
 caaaaatgga atctctacca ttgcttgttt ttggcagccc caaaacaaaa tccatggata 360
 aatcaatcca aggatactcc ggaattggca atggagtata caatccatga ggctttacct 420
 tagactttgc cttntacat acaatgcaat gtccacaaaa tttctgcaca 470

<210> 3535
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3535

tatatattga gtagcttcag atgccgaaca caactgcttt aaaagaggag tgaaggaggt 60
 cattaaggt ataaggagag gccataacgg ggctgactgt tgtcgtgcta actatggctt 120
 tctcacagaa acattacaca tgcttaccct aatgatccgg tattgtgaat gcacattgtg 180
 tgtgatggct gcgaacatgt caccgattga tgatcatcact catgttccta ttctttgtga 240
 agagtctgac gttccttata tctatgttcc atctagagaa gtacgcaacc aactctgcat 300
 tncatatcta gactatgctn gngtgccata tgcccttatg ctattattga 350

<210> 3536
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3536

agtcccttac caccttgtgg taatgctttg tattatacca tccatcaaag accttaatat 60
 gcttaggacc ccaatcaatg ctcttagatt tcatgaggat aaggcagtga tcagagtagc 120
 tcctttcaac gttgtgctgc gaactgtctg gccacttata aagccaacca tcagagacaa 180
 cagctctatc caatttgctt ttacaggaac cattaggcct aacctatgtg aactgcttac 240
 ccacactacg aatatctttc acctccatga tagcaagcca atcattgaaa tctgacatga 300
 tgctggactc tgaatntcca tgattgcttc ccattctctc tgaagggtgc ctaatacaat 360
 taanatcgcc aataagacac cagcatatat cttgggaatg cagcttcctt ctactc 416

<210> 3537
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3537

gctatattta aagacgtact tgaatattat aagctagcta aattgacttg cctaataatt 60
 atgataatat attttaagat nttgtttgtg atcataatat tgatacgaaa tagtctccgt 120
 cgaacgcagt aaatcctaga ccacttagtt aagagatata aatcactacc acttatatca 180
 atcattgttg gttgtataat ttttaagata attattataa aaattaataa gctaatatag 240
 tacataaaaa ttggaattgg gataacattn taacaaggaa aaatattata tattcttaaa 300
 tttgggaaat caagaaaaat atagaaagaa taataaaggg aaaataactt atttgatttt 360
 ttgaagaana aaaaatatgg tatcatgatg aatntatggt gtttcccaa tgcatttaag 420
 aaattttaaa aatntata 438

<210> 3538
 <211> 369
 <212> DNA
 <213> Glycine max
 <400> 3538

ctatagacaa tgcagactct tcaactgttc tgcacccaag tatgaatcag ctctctcttc 60
 tcatctttta tcacgggtgag gccggttttc ttcattgatta cctggacaga actcacccat 120
 tggctgtcgg agataggata aatgattcca gtttgcaaaa gcttggttac cttctatctc 180
 actacatcaa gaatcaccgg gttgtgtcta ctctgtgtct gccttactgg tttagcacca 240

tcctcaagat tcattctgatg catacatgtg gatgggctaa taccatgaat gtcacgcatg 300
 gtctagccta tagacttctt atgcttctctg agaactgata acaacttatc ctcttgctca 360
 tagcaaggg 369

<210> 3539
 <211> 324
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3539

agcttaacan aagacatgcg aagtgaatgg aattcctaga gaaattccct tatgttatca 60
 aatataaaaa gggaaaagggt aatattgtag ctgatgctct ttctcgacgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattgggc ttgaatgttt ggaaagcatg tatgaaaatg 180
 atgaaacttt tggagaaatt tttaaaaatt gtgaaatttt ttcagaaaaat ggtttcttta 240
 gacatgaagg ctttctttcc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300
 atttgcttat ttgtgaagca catg 324

<210> 3540
 <211> 575
 <212> DNA
 <213> Glycine max
 <400> 3540

aacgattaat atattattat atttaaggca tacgagtaaa taatatattt gattttataa 60
 aaaaaaattt aaaaattatt tttttgcaca agaattatat tttttatata aattattgga 120
 tgagtacttg ttgggaattg atatacacia tcccacacag gagagataga aaaaaaatt 180
 cacatccatc ataaatcaag aaaaagaacg gttttgggag aaaaacgaag atgaacaaca 240
 cagacaagaa gagagagttt aatctgtggg tggatgtgga gggaccttgc ccgccctatt 300
 tttttatatt ggattaatat tggatatgtt attttaaaat tagaatattt ttatctttaa 360
 caatatttca tgcacttata atttttattt tgaagagaat aatactttta gagtaatatt 420
 agaattatct ttttatgggc ttcattgtga agataatttc tttatctatt tataatatat 480
 gttactagta attttcactt ttcattgttt tctttttata atcattattg atatttttaa 540

aactataatt aagtacatct ataattgaac aattt

575

<210> 3541
<211> 605
<212> DNA
<213> Glycine max

<400> 3541

taataagtcc atttatagat tgaacaagc ttcccgccaa tggatatttaa aatttcatga 60
gatcatttct tcatttagct ttgaagagaa tggtatggat cactgtatat actacactgt 120
caagggtagt acgatttggt gacttgatt atacgtcaat gatattctgc ctgcgactaa 180
agataaagga tcgcctcgtg aggtgacact atgcctctca tataactttg atatgaagga 240
tatggctgac gcatcttatg tcataagcat aaagatccat agagaaagat ctcgaggcat 300
tttaggcttg tctcaagaaa cctatatcaa ccaagtttta gagagattta atatgaaaga 360
gtgttcacca cgtgtagctc ccattgtgaa gggtgacaaa cttgctttga gtcaatgccc 420
caaaaatgat tttgagcggg aacatatgaa aaatattcca tatgcttcag cacttggcag 480
tcttatgtat gctcaggttt gacttagacc tgatattgca ttccctgttg gagtcttcgg 540
aagatatcaa cgtaatctat gtattgacca ctataaagct gccagaaaag tgatgagata 600
tcttc 605

<210> 3542
<211> 577
<212> DNA
<213> Glycine max

<400> 3542

ttgtcttcat gaatcatatc gaaactgatt tactggctct ttatggccat ttgtagtttc 60
ctcttcccca tgtctaccac acagcttgcg gtggacataa aaggcttcc aagaattagg 120
ggaatgtcag catcttcttc aatgtctatc actacataat caactggaaa gataaaatgt 180
ttgaccctaa ccaaacgctc ttcgatcact ctgtagaagc aagcgtcatg atgatgaatc 240
aagttgattc aagttgtttt gatgatgact aagatgatga caaaaagccc aaagaatgat 300
ttcaagattc agttaacaag ttcaagatta agtttaattt caagtttcat gagaagaaat 360
caagaagatt caagaatcaa gagaagtttg atttcaagat tcaagagaag aagaattcaa 420

gattcaagag aagaaatcaa gaagacctca caagggaagt attgaaaata tttttcaaaa 480
aaciaacata gcacaatttt gtttttcaaa agaatttttc tcaaaatttt ctaagttacc 540
agaagtttta ctctctcgta atcgattacc aatttcc 577

<210> 3543
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3543

agcttatagg gtaaaagtct cacgattgtc acgtgctcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgatc cagtcatgtt tgatgaagtg gaaaatgagg 180
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacgtcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300
ggatatacnc cggtgagcga tacatg 326

<210> 3544
<211> 581
<212> DNA
<213> Glycine max

<400> 3544

tctcccaatt caattaaatt tatttccaac catacacatc aaatattcac ttaatgcatg 60
taaaattaca aaactactcc taatacaaaa actagtctag gtgccctaaa atacaagggc 120
tgaaaaattc tacacttcta aggtaccata cctatattgt ggagccctaa atacaagacc 180
gaaaaataat gaaaccttaa tctaatatgt acaaagataa gcaggctcat acttaaccca 240
tgggcccgaa atctacccta aggtcatga gaaccctagg gccttctctt gcatctctgg 300
cccaattttt ttggagtctt ctatccaatg cccttgcaag gtaggattac atcattccct 360
cccccttgaa aaggatttga cctcaaatec tgaggttctt gaaactctgg gcttttttcc 420
tcaatacttt taaaacgaac aaaaacatat gtattagtgg tgtttggtat gttgaagtaa 480
ggtaaggtct taaaacccat ttctgggca tctttccatg aaagaacatc gttcctcagt 540
aactcaatga gtggtgctaa aagtataaaa aaatatggga c 581

<210> 3545
 <211> 632
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3545

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 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tccttatcat 120
 aagttgaata gttaagggtta agaccactta actttttcact gaaataagca attggatggc 180
 cttcttgcaa caacacagcc ccaatcccaa catttaaagc atcacactcg atttcaaaag 240
 atttttgaaa gtttgcaacg caagtatggg ggcattagtt agcttttgct taagaatatt 300
 gaaatcttct tcttgtttct ctccccattt gaaaccaaca tttttcttgg gcacttcatt 360
 gagagggtgct gtcaatgtgc taaaatcatt cacaatcgt ctataaaaac ttgctaagcc 420
 atgaaaactc ctcacctcgg tcatggactt aggtgtaggt ctttcttgaa tagccctaac 480
 cttctnctca tcaacttgca ctcttttga acttacaaca natccaagaa aacacacatg 540
 gttagtacaa aagatgcatt tttcaagaat ggcatacaat tgttcttctt ctagcacaca 600
 ccagataaat tntaaatgat caatatgaaa at 632

<210> 3546
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3546

agcttcttct tgtttctctc cccaattgag accaacattt ntcttgagca cttcattgag 60
 aggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg ctaagccatg 120
 aaaactcctc acctcgggtca cggacttagg tgtaggccat tcttgaatag ccctaacctt 180
 ctctcatca acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatggtt 240
 agtacaaaag atgcattttt caagattggc atacaatggt tcttctctaa gcacagtcaa 300
 gacagatttt aatgatcaa tatgcaaac aagtgaagt ctatagataa gaatatcatc 360
 aaagtacacc acaacgaacc tttctatgaa ctctctcaag atatgggtca ttagtctc 418

<210> 3547
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3547

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 ttccatctac acaaccgcat ccacctccat caccatcca tctgttaaac aagtggcctc 120
 agttatctta agaagggggg gttgaattaa gatacaaaaa ctatccccc ttttaattttt 180
 ttaacaattc aacccttatt atgaattact ctaagaacaa ttcaaaacaa acttctttaa 240
 agcgaaatat aaacaataat aaataaaaga agtttaaggg aagagagaat gtaaactcag 300
 tttttatact agttccctta tgttcagata accttacaac t 341

<210> 3548
 <211> 239
 <212> DNA
 <213> Glycine max
 <400> 3548

agcttgacag gtttaggtgc tactactggt agaggcactt caatttgctt gccagacctc 60
 aaggtgatgg cactcacatt ttttggttgc tgcacagctt gtgaaggcaa tttgtagaa 120
 ttttgggact gaacttggtt caactgaata gccatttgcc caatctgatt tgtcagactc 180
 taaatgaagg ctcttgtctc ttgctgaaat tgcatttctt ggatggccat ttgcctcac 239

<210> 3549
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 3549

tcttgggggtt ggcaggctat tatagaaagt tcattgaggg attttcttta ttggctttgc 60
 ccctaactaa gttgactcgt aagaatgaga agtttggttg gaatgagaag tgtgagcaaa 120
 gtttccaaga gttgaagagg cggttgacga cagctccagt gtttaattttg cccgacccta 180
 agagaacatt tgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtgttgatgc 240

atgaggggaag agtattggcg tatgcttcac gtcaattacg tcctcatgaa gtttactatc 300
 cgactcatga cttggaacta gcagccgggg tctttgcctt aaagatttgg aggcatatt 360
 t 361

<210> 3550
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 3550 .

tccaatccat cttcttctac ttctctctt tctccttctc attctcctgt ttctcaacca 60
 ctctctccag cagaaactcc acaaaataga actgctacca cttcaaagag ttactttggc 120
 ctagctacta tacttgctct agcaattgga ggctgtgcct ttatctccct cctagttttg 180
 atcatctttg tatgctgttt gaagaggacc aagagtgaag gcagcggcat actgacagga 240
 aaagcacctt gtgctggaaa ggctgagatt tcaaagggtt ttgggagtgg agtgggaagag 300
 gctgaaaaga acaagttgtt cttctttgaa ggttgctctt acaagtttga ctttgaagac 360
 ttgttaaagg cttcagctga agttcttgga aaggggagct atggaacaac atataaagct 420
 gctttggagg atggaacaac agt 443

<210> 3551
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3551

agcttgcttc agaaaataat aacactaaaa aatcagggtca ttcactttaa attatgacca 60
 ataataataa agtacattca agcattcatt catttattcg gaaacaattg ggagattgaa 120
 atttttgctc acgaaaaaag gatacaataa aaaaattact atatacaaat ccatgctacc 180
 tgttcattnt caccatcctt cttcgaaaga aataaatgcc aaaagcagac agaacatgat 240
 acctatatac tggcttcgag ccttttgagc accagatcga ggaatagcca acacagctat 300
 gagtccactg ataagggctg aaacagctgc cacagcaaag gctgggtgagt ntccttcacc 360
 aaatagctga tccatgggtc cacttcccag tgacactatt atctgttaan acatgataaa 420
 catgtaactt ag 432

<210> 3552
 <211> 708
 <212> DNA
 <213> Glycine max

<400> 3552

tcattaagag gcttcctcta gaagcttctt cgtggcttct ttgagaagct ttcacaagaa 60
 gcttctttga gaagctacat ccttatctat ccacccctct attaactaaa ttaacttcct 120
 taaaaataat tacggatgaa aataacgcaa caaataatca aacatcaaac ataattacta 180
 ataatatata gatatatata tatcaggggtg ttacaactct cccacccttt tagaaatttc 240
 atcctcgaaa tttaccttac tcacacaagg atgggtgagc ttctcgcatc tgaatttcta 300
 attcccatat ggcattctct cctgatgcac ctcccatat caccttgacc aacgaaatct 360
 ctttccctct tacgtgtttt gttcgccaat cctcgatcct caaaggcaat atttcatatg 420
 tcaaattctc cttcacttgt acatcatcca attcaatcac atgggatgga tcacggatat 480
 acttacggag ttgagacaca tgaaagacat tgtgaggatt agaaagagac ggcggtagt 540
 caattaggtg tgccacaggg ccgactttct taagaatttg gaaaggacca ataaagcgag 600
 gtgtgagttt tcgggatttc aatgctcgac caacccccag accatggagt gactctcaag 660
 aatacatgat caccaacctc gaatccagat ctttctcttc tatcatga 708

<210> 3553
 <211> 491
 <212> DNA
 <213> Glycine max

<400> 3553

ttgaggaaat tcaaacgaca ataccttttg acacggatgt cggattgagt cacgcaatat 60
 ctcgagacgc ttgaaattga ataccgaagc tttgagcaaa ttcaaacgac aataactttt 120
 tactccgatg tgggattgag tcacgtcata tgtccagacg ctcgaaatag aatacccgag 180
 ctctgagcaa attcaaacga caatacctat tgactcggat gtccgattga gtcacgtaat 240
 atctcgagac gctcgaaatt gaataccgaa gctctgaccg aattcaaacg acaataactt 300
 ttactcggg tgtgcgattg agtcccataa tatgactaga cactcgcgat ttgaaatacc 360
 gaagctatga gcaaattcaa acgacaataa cttttatctt ggatggccga ttgagtcacg 420

ccatatgtca aagacctcga aaataaatac cgaagctttg agaaattcaa cgacaatact 480
 tttactcgga t 491

<210> 3554
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 3554

atcattcgctc ctattatagg tgctaaacga ttcacaccaa tcatgataat accaaaaaga 60
 cttcgctcat aaataatggg aagagtatct ggggagtcta ttgttaccac attcatgacc 120
 caaacatttc aattcttcga gctatagcat atttgaaac cacatacggg gaaagatgct 180
 cagccaagcg ggacatatta gcaagtgaac atctaattca gagtaacaaa tcgataagta 240
 taacagtgc tttagctcac cctctattga tagatctcat atcaatgact tgccgtacat 300
 tgccatttaa ttcccat 317

<210> 3555
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 3555

agcttttgag caattcagat ggtcataact tttcacttgg aggtgcgatt cacgcgcata 60
 atatatcgag atgctcaaaa ttgaacaacg gacgctctcg agaaattaaa atggtcataa 120
 cgtttcactc agaggtgcca ttcaggcgcc taatagatcg agacactcaa aattgaacaa 180
 cgaaagctct cgagaaattc aaatggtcac aacttttcac ttggagggtcc aattcaagcg 240
 cataatatat cgagacgctc a 261

<210> 3556
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3556

agcttgcaga anatgtcgat gttgagtgtg tactatnttt cttccatgtc tcaattgtac 60

atagcttggtg tcttcttcat agataacgca tgcacgatgg cccttaacac tgtatccact 120
 caaattcccg tatgttgga agtcattaat ggtacaaaat agcattgcat gcaacttgaa 180
 tgtctcattt cgatacccat caaagacagt aaccctctag tcccaaactt ttgtcaagtc 240
 tttaatcaag ggatgagata aacagcgatg ctatttccta gttttgttgg gctcgatata 300
 atcatagaca acatgatgta tctttacttc atg 333

<210> 3557
 <211> 561
 <212> DNA
 <213> Glycine max

<400> 3557

ttgagtttct tcttcatgaa tgcaggaaga atcaacaatt aactggaagg aactgactca 60
 aacttggtgag atggcagaaa agtgcctaac aacaaactac tatggtgcaa aggaaacaac 120
 tgaggcattt cttccccttc ttcaattatc caactcacct atgattgtca atgtttcctc 180
 ccaagcaaga ttgttaaagg tacaatagtg gctaaacttt tcttttgaaa cttgaaatat 240
 gattttacac taaagtctca acattggcaa atttgtgtta tgttgatggt tcaagggata 300
 gcaaacgaat tgggttaaagg ggtgtttgat gatgctgaaa atcttacaga agagagaata 360
 gatgaggtac tcaaagttta tcaaagactt aaaagaaggc tcacttgaaa acagagggtg 420
 gccaaccttt ttgtctgctt atatggtctc aaaagcagcc atgaattcat acacaaggat 480
 tctagccaag aagcaccaaa acctttgcat taattgtgtg tgtcctgggt ttgtgaaaac 540
 agacataaac agaaacactg g 561

<210> 3558
 <211> 609
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3558

tcaagaataa tggcctcaac aaacttctta ttcccataag gaaattcaat aaataggcct 60
 cctattttta atggagaggg ttaccactac tagaaaaccc aatgcaaata ttctattgag 120
 gcaatagact taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctggaaata caacaataga gaaacctaga gaagagtggg cttaaagaaga aagaagaata 240

gtgcagtaca atttaaaggc taaaaacatc attacttctg cctaggaatg gatgaatatt 300
 ttaggggtgtc aaattgtaag agtggttaagg atatgtggga cactctacaa gctacacatg 360
 agggaacaat tgagggtcaaa agatctagga taaatactct aactcatgag tgaattatatt 420
 aggatgaaca caaatgaaag tatacaagat atgcagaaaa gattcacaca tatagntaat 480
 catcttgcac cattaggaag aacttttcaa aacgaggatc tcatatataa agtggttaaga 540
 tgtttaagta gagaatgcaa cccaaagtaa cagccatcat agaactctaga gaattttcta 600
 ttatgtctc 609

<210> 3559
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 3559
 agcttggaga accaagccaa tcagaatgct agacgaaata tagatgggaa tagaggtaac 60
 aatggcggtta atgacggacc gaggcagaac cgggttgagg gagtaaagct caatgttcct 120
 cccttcaaag gtagaagtga tccagatgcc tacctggact gggaaatgaa gactgagcac 180
 atatttgctt gcaatgacta cactgatgag cagaaagtca agctagcagc agctgaattc 240
 tccgactatg ctcttggttg gtggcataaa taccaaagag aaatgttgag agaggaacgg 300
 cgagaggtat atacatggac tgagatgaaa aggggtgatga gaataaagta tgtgcccac 359

<210> 3560
 <211> 592
 <212> DNA
 <213> Glycine max

<400> 3560
 tggttatctc cttcttcaact acatcaagaa tcaccgggtt gagtcttctc tgtggctgctc 60
 ttactgggtt agctccatcc tctaaattta ttcgatgcat acatgtggat gggctaatac 120
 caggaatgct cgccagggtc cagcctatag cttcttatg cttcttgaga actgacaaca 180
 acttttcctc ttgctcatca gcaagggagg cagatataat cactggaaaa ctcttgctat 240
 catccaagta agcgtatttt aaatttgatg gcagaagctt caattctggt gtggctggct 300
 ggacagtggg agaaggagat ggtttctcag cttttacctc ataaagaaag tcagaggtat 360

gtgtacttcc tgaacatgg ttagtcctat ctgactctat aaaatcaatc tcaagaggta 420
 aaacaccacc accaggcatg caatcaatat cactctcaga ttcactctca gcatcaaatt 480
 cagacatatg atcaagtaca atttcagact ccatgcatga tgagtgagag gcatgcatat 540
 tttaataaag atcagccatg tattcctcaa caacatgggc aattttttca gc 592

<210> 3561
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 3561

agcttggcgg gttcagggtgc acgtgctgct aatgggtggag gcaattgaat ttgcttgcca 60
 gacctcaagg tgatggcact cacatttctc ggattctgca cagttttgtga aggcaatttg 120
 tcagaatttt gggactgagc ttggttcatt tgagtagcca tctgccccat ctgatttgct 180
 agactctgaa tggaggctct tgtctcttgc tgaaattgca tattctggat ggtcatttgc 240
 ctactaact cttctaggaa gggtgaggat gaggctcagc tgcttgttgc ca 292

<210> 3562
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 3562

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatct tcagattggg aatgcctcta acagcacctt tggtaatgat tttcttcatt 120
 cctcttaagt gcagatgccc aaatctttga tgccatattc tgacttcacg tttcttggag 180
 aatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttttcatttg tcaccaagca ttctgactgt 300
 gtgaagtata cattaaatcc ttcattcacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccatcagtag tttgt 385

<210> 3563
 <211> 560
 <212> DNA
 <213> Glycine max

<400> 3563

cctaaaaatat tggacatggc agtttgttgt cgccgcctct gtatgttctg ttttgatgat 60
tgcattacag ctacgcggct gtatccaaat tggttgagct gggcattcac catcgttctt 120
aacatatctg tgcggttagc cttgtattct ctggtggcct tttaccattt gtttgctaaa 180
gaactggcac cacacaaacc tctagctaaa ttcttgtgca tcaaaggaat tgttttcttc 240
tactcttggg aggtaagctc atacagaaaa aaaaaaccta tttttacata tagatcaata 300
caaataattg gactagttga tggttctcaa ccatttttcc tttggtttta ttttttattt 360
tttttcatat tgcttttact tattttattt ggtgtagcca acaagacaat aaactcaatg 420
taggaaattt caacctaaaa aagcagagag gatcataatg ctttgggggt tcatgccaaag 480
gacatatgtc atgagaagac aaagcataat tttgaaatgg cacaggagag cataagatag 540
gtacgtccac acttgacagt 560

<210> 3564

<211> 343

<212> DNA

<213> Glycine max

<400> 3564

cttaactcgg aggtccgatt caagcgcata atatatcgag acgcttttta ttatccaacg 60
gaagctctcg agaaattcaa atggccataa cttttaactc ggaaggcgga ttcaggcgcg 120
taatatatcg agacgctcga aattgaacaa cggaagctct cgagaaaatc aaatggtcat 180
aacttttcac acagaggtct gattcacgcg cataatatat cgagaccct ctaatttaac 240
aacggaagct ctcgagaaat accaaaggctc ataactgttc actgggatgt ccgagtcagg 300
cgcataatat attgagacgc ttcaaataga acaacggaag ctc 343

<210> 3565

<211> 582

<212> DNA

<213> Glycine max

<400> 3565

tcgaatgcac tattcaatgg agaagacaag aacatcttca gactgattaa cacttgcaca 60
gtggccaaag atgcatggga gatcctgaaa atcactcatg aaggaaacctt caaagtaaag 120

atgtccacat tgcaactcct ggctacaaaa atcgaaaatc tgaagatgaa ggaggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgcca atgcttgac tgccttggga 240
 gagaggataa cagatgaaaa gctgggtgaga aagatcctca catccttgcc taagagattt 300
 gacatgaaag tcaactgcact agaggaggcc caagacattt gcaacatgag agttgatgaa 360
 ctcatgtggt ctcttcaaac ctttgagcta cgactctcgg atagggctga aaagaagagc 420
 aagaatctaa ctctcgtgtc caatgatgaa ggagaagaag atgagtatga cctggatact 480
 gatgaatgtc tgaccaatgc agttgtgtc cttgaaagca gttcaacaaa gtgctcaaca 540
 gaatggacaa gaagcagaaa ccacatgtcc agaacatccc tt 582

<210> 3566
 <211> 607
 <212> DNA
 <213> Glycine max
 <400> 3566

ttgacattat gatacatggt gcctcctcat tgttgaatgg agcagcttca aaattgataa 60
 tggacaagaa agttctcaga aattttactc taccaacaac atcagggttg tccaagaatg 120
 aagaattgaa tttggcaaat gacaaatgac gagtcttagt attgatcttt gtttctttcc 180
 caagttcttc tgatctaaaa taaaaatctc caccgagtga cgttgctaga tcatgcatga 240
 ggtcatgcat cacaaaccat ttccgatcag accaactact tctatttgta cttgaacgtt 300
 ggaaaaatga tctcgaaacc aaatcatcaa aatactcatg accaacctct tctaaagtcc 360
 taccatttct tggtttcttc aaaagatctt cggccatcca caacaagatt aattcatttt 420
 tttcaaaactc gtaatcttgt ggatacaacg aacaataaac aaagcaccgg tttaaatgtg 480
 gagggagatc atgataacta agtctcagtg ctggaataac tttacactca ctttcagaaa 540
 gttccacat gtcactattc agaattattat tccaatcccc aatgtcatgc tttcttctca 600
 acatgcc 607

<210> 3567
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

GenBank accession number: U00096.1
 Organism: Escherichia coli
 Accession: U00096.1
 Version: 1.0
 Date: 1998-01-01
 Size: 4,641,681 bp
 Type: genomic
 Assembly: complete
 Annotation: complete
 Project: genome project
 Source: E. coli
 Strain: ATCC 8739

<400> 3567

gatgcttaag ttggtgataa caggggttcaa accaacatca caatatgtgt gaacttactt 60
gggcaatctc aaatccacgt ccttcgccaa gtatgatgtt ttttgcgggc acacaaacat 120
tttcaaagt tacttctgca tgcccatgcg gtgcattatc aaagccaaac actggcaatg 180
gtctctttat gtgaacgcc ggagtctgga catccactaa gatcatagaa tgcttggtat 240
gcttcactgc attgaagtca gttttccctt gtccatatng ttttatcagt ctctgggtctc 300
tattgacatg aacggcacat ggactgctaa tgcaataact ttcaaccaat actcaccatg 360
actatcagaa ttctacattt tggat 385

<210> 3568

<211> 553

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3568

tactcttgct tgcaaaggcc cgtccttgat atttgttttc aaaaacgatg gaagttcttt 60
atggttaagc taatgcttgg agaaaaataa gatcttcgta agacccaa atgtgtgggct 120
gttggtgatt tttagtactc agcttactat ccagaaaacc taaaagggtc ttcttataaa 180
taatataaaa aaaagtctag gaccatcata ttttatatat tttttaaatg aaataacttt 240
ctgtgtccac ttgangagtg tcatctatcc atctaaatca atatttcctt ttgcttgctc 300
ttataatagc gttatgtcta attgtaactt atgatatagt ataataaat ttaactagga 360
tgctctgtcc cctttccctt gctctattat gtttatcttt atcttattat tcgggtatttt 420
tgccctttatt tcttgcttgt tttattctta cctctttatt attagattcc actcagtact 480
tctttgatat taattaaatt taaatttcta ccataaatat tatgtatagt ttacattttc 540
gatttttttc caa 553

<210> 3569

<211> 307

<212> DNA

<213> Glycine max

<400> 3569

tgacaatcct gagagtcact ccacgccag ttttcatcag cccaaatgcc accgcaagct 60

tctcactgtg gtacctgagg gcatactccc tttcttcccc ttccaactcg tgcacgcgg 120
 actctggcac ggggtgcatag cctgcaccc tgcaccttca tatcaactca tccaagaaac 180
 aataaatctc attagtctca cgggtgagact tgtcaccat gctaaacaga taacttctat 240
 tgtcaacatc tatgggtgcta taaccactt gcttctaag cctctttgga tatcacattc 300
 taccgat 307

<210> 3570
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3570

tcacctgcgg catgcaagct ntctccacta agttgcctga tgccaganat gtcttttcta 60
 atggcagtgg tcctagatgc agggagaat ttctccaaga acaccctctt aaggatcatcc 120
 catctaaaaa tggacctgng agcaaggtag tatagccaat cttttgccac tccctccaga 180
 gaatgaggaa aagacttttag aaagatatga tcttctgga catcaggggg cttcatgggtg 240
 gaacaaacaa tatgaaactc cttgtgatgc ttaagaagat cttcacctgc aagaccatga 300
 aacttngca gcaaatgtat taatccagtc ttgagaacat atggaacacc ctcattacga 360
 tattgaatgc acaagctttc ataagt 386

<210> 3571
 <211> 619
 <212> DNA
 <213> Glycine max

<400> 3571

cattgcaaag cagatatcgg gtctgctatt gcataagtat ctcagatata caatcaactt 60
 cctgaactca gtagcatcaa ccagttcctc tttaggatcc ttctccaact taagccctgg 120
 ttcaattgggt gttacagagg gattgcaatt cagcatacca agtttcttta agacctcctg 180
 tgcatatctg ctttgggtgca tgagcactca cttctgtact tgggttaaatt ctaatccaag 240
 gaaatgtgat aatttcccta gatcagtcac cccaaactca gccatcatga actgcttgaa 300
 aatatgaatc tcctttttcac tgctgccagt cacaagcaga tcattctacat atagacagac 360

cagcagtaaa ttggttgaac aattggccct tatatacacc acatgctcac tcttgcatTT 420
 actaaagttt tgtttggtta agactccatc aatcctcatg ttccaggccc ttggtggctg 480
 ttttaaacca tacagggtt ttctgatcca gtacaccttg tcttcatgct ttttcttctc 540
 aaagcctggt cactgtaata tgtatacctc ctcttctaga taaccattca agaaagctga 600
 cttaacatcc atatggtac 619

<210> 3572
 <211> 495
 <212> DNA
 <213> Glycine max

<400> 3572

tagatccaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgcaacat 60
 atcgagacgc tcgaaattga atgttgaaac tctgagctag ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccatcata tatcgagacg ctcgaaattg aatgttgaag 180
 ctctgagcca attcaaaca caataacttt ttactccgat gtctgattga gtcccgaat 240
 atatcgagac gctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300
 ttactcggg tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgttga 360
 agctctgagc caattcatac gacaataact ttctactcgg atgtgtgatt gagccccgca 420
 atataacgag accgctcgaa attgaatgtg gaagctctga gcaatatcaa acgacaatta 480
 accttttact cggat 495

<210> 3573
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3573

atccttagag tcacctgccg ctgcagctta acaatcaatt tcgagcgtct cgttatatta 60
 ctggactcaa tcagacatcc aagtaaaaag ttatcatcgt ttgatatggc tcaaagcttc 120
 aacattcaat ntcgaacgac tcgatatatg atgggactca atcagacatc cgagtaaaaa 180
 gttattgtcc ttcgaaatgg ctgagagatt ccacattcaa tttcgagcgt ctcaatatat 240
 tacgggactc aatcagacat ccgagaaaaa agttatTTTT cgtttgattt gctcaaaggt 300

tcaacattca atatcgagcg gtttgatata ttacgggact ctatc

345

<210> 3574

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3574

agctntnttc agtcgtttgt aaaggtgatt ggggtgttata aagcggcgat gcctactgta 60

gactgttttt ctcccatgat taagttgtat gtaacttgtg ttttcttcac agatggggca 120

tgcattgatga cccttaacac tgcaaccgct gagattccca tatgctggaa agtcattaat 180

ggtacaaaag agcattgcac acatttcaaa ggtctccttg cgaaacgcat gatacactac 240

aacccccctcg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300

gtcatttctc ggttgtcttg ggcccgatat catcatagac aatatcatgt a 351

<210> 3575

<211> 585

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3575

tatgctgcaa acatttataa tagactccct cagttgcaaa accaactaca acagaataat 60

tatgaccttt caagcaatag atacaatcta ggttggagga atcatccaaa tttgagatgg 120

acaagtcctc cacaacaaca aaagtttgtc cctccttttc ataagctgc tggtcgaagc 180

aagccatatg ttctccttc aatgcagcaa caacagcaac agccacaaca aagacaacaa 240

gcaactgagg ctctcctta accttcctta gaagaattag tgaagcaaat gaccatcaag 300

aatatgcaat tttagcaaga gacaagagcc tccattcaaa gtctgacaaa tcaaatgggg 360

gagatggcta cacaatatgaa tcaagctcag tcccaaaatt ctgacaaatt gccttcacaa 420

attgtgcaaa atccganaaa tgtgagtgcc atcaccttga gggttggcaa ccaaattcaa 480

gtgcctccac cagtagcagc acctgcacct gaacctgtaa agcttcattc ttactagaa 540

aaagaggatg agatagttgg tgtcatatccc taatttcgtc tggggg 585

1534

<210> 3576
 <211> 535
 <212> DNA
 <213> Glycine max

<400> 3576

tctgctgcaa catttataat agacctctc aacaacaaaa ccaactacaa cagtataatt 60
 atgacctttc aagccaaaga tacaatctaa gttggaggaa tcatccaaat ctgagatgga 120
 caagttctcc acaacaacaa cagcctgtcc ctcttttcca gaatgttggt ggttcaagca 180
 agccatatgt tctcctcca atgcagcaac agcaataaca gtcacaacaa agataacaag 240
 caactgaggt tctcctcaa ccttccttag aagagttagt gaggcaaag accatccaga 300
 atatgcaatt tcagcaaaaag acaatagcct ccattcagag ttgaaaaat cagatggggc 360
 agatggctac tcaattgaac caagctcagt cccaaaattt tgacaaattg ccttcacaaa 420
 ctgtgcagaa tctgaaaaat gtgagtgcc tacccttgag gtctagcaac caaatttaaa 480
 gtgcctccac cagtagcagc acctgcacct gaacctgtca agctttattc tacac 535

<210> 3577
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3577

tgtactttac cttatgagcc gcatanttcg gactcccaca agttgttcca caagttgtcc 60
 gaacgatact cgccccctat cagaatattc aaaagtttga agcagcttgg tattattata 120
 tcttacatga gtcgaggtcc tatataaaag ctaatttggt gacgagctca cctgctcagg 180
 aaatgcactc aaaccataat cggaaatctt tatatttcct agtgaatcac agaaaagatt 240
 ttcaggctgc tcaaggcagg acgaaaaaaa gaaaatttta agaaatcaca gtaaggacaa 300
 caaacaactt ctcatatctc actcaatgca aaccttttaa tctcagtgat aaactccctt 360
 actgtggcaa gaatctacac cggcaataag ctgttggaag tatcttctag agtcagcttc 420
 actaacgcgg ccatggagta tcttgacaat catattattc accatcaaac attttccata 480
 acttgcatg tgattgataa aaggcacagt aaaagcttca aaaa 524

<210> 3578

<211> 317
 <212> DNA
 <213> Glycine max

<400> 3578

gcttgagcac ctctttcctc acctcttctt tcatttatgg gttgagcctt ctctggggct 60
 gcctgactga tctatagget tcttccatca ttattctgtg catgcaattg gtagggctaa 120
 ctcttttaaa atcatatatg tgtcacccaa tcgcttccct gtgtctcttg aggacttcta 180
 ccaacctgtt cttttcttct actgctagtt cactgctgat caccataggc gtgtgctcct 240
 cctacaagaa cacatacttt tgatgggttg gtaggtaaga tcttcagctc taccttggtc 300
 ttctcggatg tactcct 317

<210> 3579
 <211> 536
 <212> DNA
 <213> Glycine max

<400> 3579

tgttacaaat atcgtcaaca cgaaaaccct taagggattc tgtgagcatg tctactagtt 60
 gatcttcgaa gttgataaac ttaatgatga tatctcttaa aggtaccttc tcttgacaaa 120
 agtggcaatc aatctttatg tgtttagtca tctaataaaa gacatgggtt gaagtaatgt 180
 ggagagcaac ttcattgtca cataatattt tggatgttg aacgtctcca aattttatta 240
 gttagagaag tttcctaagc catgtgatct cgcagttagc tacttccatg gcatgatact 300
 caactttggc actggatcta gcaatgggtt tttgcttctt tcttctccat gagatcaagt 360
 tccctcta ataggacaaa tatctagaag tggagctcct gtctgatggg gatcttgccc 420
 aatcaacatc agagtagcaa acaactttga cctttccttt ctcttcatat agaaatccat 480
 gacccaatgc attcttgatc ttgaagtatg cacattgtag caataaaatg actatc 536

<210> 3580
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3580

agcttagtag gtctcgacct ttctatctgc tccaatcttt nttcttgtga gccatttac 60

aaccaattgg ttttatatcc tttgaagctt caactaaagt ccataatttg ttgatcttca 120
 tttattccat ttcagattcc atagcttctt gcaatttctt acaatctaag ctttgcatgg 180
 tctcttcata gcttcttgga tcatcatcat catgataaaa ctcatttgat gtgtcatcta 240
 ggaccatcaa gtttaatcta tcaggtgcat gatgcactca agtagatctt ttagaagcct 300
 catacattgg gtttataggt tggtaaattg attctaagat tgggtcatta acctaatctt 360
 gaactataac t 371

<210> 3581
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3581

agcttctgga atactatccg ccggaatcgg acttctgtgt gacaagttat gaccattaga 60
 atntctcgag agctttcgtt gttcaatttc atgcttctca atatattatg cgcccgaatc 120
 ggacttccgt ttgaaaagta ttgactcatt gaattcttcg agagcttccg gtttcaatat 180
 cgagcgtctc gttatattat gcgcctgaat tcgaagtttg tgtgaaaagt tatgacaatt 240
 tgaatttctt gacagctttc ggtgttcaat ggtgagtttc tcatatacta tccgccgga 299

<210> 3582
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3582

agctctcgag agattcaaatt ggtcatatct ttttaaacgg aagtccgatt caggcgcata 60
 atatatcgag aagcttgaaa ttgaacaaca gaagctctcg agaaattcaa atggtcataa 120
 cttatcacac cgaagtccga ttcaggcgca taatataccg agaacgctcg aaatgaacaa 180
 cggaagctct cgagaaattc aatggtcata actgatcaca cgaaagtccg attccggcag 240
 atagtatacc gagactcttg aaattgaaca acggaagctc tcgagaaatt ctaatgggtca 300
 taacttttca catggaactc cgattcaggc gcataatata tcgagacttt tgaaatataa 360
 caacggaagc tctcgagaaa ttcanatggt cataaaa 397

<210> 3583
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 3583

actggatgca ttggttaact tggtaaccca gctggccttg aatcagaaat ctgtacctgt 60
 cacaaggggtt tgtggtttgt gctcctctgc tgaccaccat acagaacttt gcccttccat 120
 gcagcaacct ggagcaattg agcaacctga agcttatgct gcaaacattt acaatagacc 180
 tcctcaacct cagcagcaaa atcaaccaca acagaacaat tatgacctct ccagcaacag 240
 atacaacctt ggatggagga atcaccctaa tctcagatgg tctagccctc aacaacaaca 300
 acaacagcct gctccttctt acaaatgctg ctgcccaagc aaacatacat tcttcacaat 360
 caacaacac 369

<210> 3584
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3584

ctaggattga agcgcagtga agcagatcat tcaattntct atagtcacac ttctccatga 60
 aagtgtatnt atctaattgt ccatgttgat gacatagtta ttacagggaa tgatgttgct 120
 acaatttgct tgctgaaaaa gcacttattc atccactttc ataccaaaga ccttggggtgt 180
 gtaaaatact ttcttggtat tgagggtgact caatcaaacg aaagcatttg ntattttctca 240
 aagaaagtat gctttggata ggtttttttc cagcaataca ctccatctcc cctatttgct 300
 caaaatacac ctctttgtat actaatccc aaaatacaac tttttctcac ctttgagaag 360
 ttgagactgg ccaccccgac ttctgtacga cgcgctnttt ttttaatttaa ttnttatttt 420
 atttttaaat gtatgtttc 439

<210> 3585
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3585

ctgatgcaac attnggagag gttaatgaaa caacgagatg atgcgctcca tgagagggttg 60
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatagt 120
gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaaag 180
aatgatccgg aggcctacgt tgagtgggag atgaaaatag agcatgtttt ctcattgcaac 240
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300
gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360
tggacggaga tgaaaaagat catg 384

<210> 3586
<211> 306
<212> DNA
<213> Glycine max

<400> 3586
agcttatgac cattcgaatt tctcgagagt ttccgttggt caatttcgag cgtgtagatg 60
agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120
gcttcgggtg ttcaatttcg agcgtctcga tttattatga ccccgaatcg gacatctgtg 180
tgaaaactta tgaccatccg aatttgctga gagctttctg tgatcaattt cgagcgtcta 240
gatgagttat gttcgcgaat cggacattcg agtgaatact tatgaccatt cgaatttctc 300
gagagc 360

<210> 3587
<211> 423
<212> DNA
<213> Glycine max

<400> 3587
cacagacctg catttatagc tcaccctac ttgaattcca aggtgagaaa tgggaaattc 60
caattgactg cagttgagaa aagaagttgc ttccctacac cagccttcag atttaccag 120
acaccgaat tggctcttat tgtagtttat ctttagacca gaaaccaatt caaacattt 180
catgatacac tctaaaactc taacattatc attagtggca gcccaaaga acaaggtgtc 240
atctgcatat tgaagtatat taacttcctc tttcttctt cccacttgat agctgctgaa 300

gagattgttt gttactgctg atctcatcaa cccggttaagg ccttccacta ctatattgaa 360
tagcaaaggt gcaaggggat caccttgctt taagtctctt aaggacaaat tcctgagaag 420
tac 423

<210> 3588
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3588

atatgtaagt tggatcgagc ctttgaaaaa atcatatgat aagtaatgag tcaagcntta 60
agtttgcgta ttcaactcaa accaagctca agcctactaa agctngactn gactcgactt 120
ctttctaccc ttactgtgga gtataaattt actataagga aatcgcgctt cagagcataa 180
ttttgttctt agaaaaatgt tatactaaaa tttatatgca cgtacgaatt tagttttaat 240
aattttatat taaaagtaaa atattatgtc atgagtttac atgttttatt ttatttaaaa 300
atac 304

<210> 3589
<211> 403
<212> DNA
<213> Glycine max

<400> 3589

gcacaaatgg ccaattatgt gcttctaacc aatgaccaat tcttgtcaaa ccgaaccatt 60
ccccaatccg tgtcagttct aaaccatgaa caatacagcc ttgccttcat gccatttca 120
cctctttgga gggaaactcag aaaaatatgc aacactcagt tatttgccca caagtctctt 180
gatgctagcc aagatgttag gcgtaagata gtgcagcaac tagtctccga tatccatcaa 240
agcagccaga taggtgaagc agtggatatt ggaacagcag cattcaagac taccataaat 300
cttttatcaa acactatctt ctctatggat ttgattcact ctacacgtaa agcagaagag 360
ttcaaggact tggtagcaaa tatcacaaag ctgggttgaa cac 403

<210> 3590
<211> 456
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3590

cgcacggtca gagaacatgg ttttgaaggc attagcttct attgcatcgc ctatataaag 60
gatacggngg agacaattta tgacaatagc acaaactcgc agagatgaaa tattcaaaaa 120
taataatatt caagcttaaa ttgctggaat cagtaaaggt ccacttcact tgtccaaagg 180
tccacttcaa aaataataat acaggaagat gtatgacacc tgtcttanag cacgagtcac 240
ggccaaaatg gctcctctcc catcactagg aggttgagta atatgatatg catcacctag 300
tcaaaatcca catgaaataa gtcaaccaa tataaactaa ggctagaaga aaatcctaca 360
tatcttgcaa ttagacaaac tacctgacat cccatagcca cggacctctg catagatntt 420
ggctcctcgg ttttttgcac gctcaaattc ctaaaa 456

<210> 3591

<211> 439

<212> DNA

<213> Glycine max

<400> 3591

tgccaagagt gtggccttca gttgaaccat atactcagag tgaggagctg agaggatgag 60
gtattgacca gggggatgat tgtctctgcg agagagagaa tcagttacta tattcgagga 120
accacttta tactgaattt cgtagtcgta tccaagcaac ttggctaggt aaaattgctg 180
ttccgacgtc tgaactacct gagacatgag ctacgaagg ctccgatgat ctgtgaagat 240
ggtgaattta tggcccagta gatattgccg ccacttgagg acggcggaac cgatggcatg 300
caattcgca acgtaagctg aagcgtgttg gaggcgttga caaatgatt tgctgaaata 360
agctatgggg tggccgtgtt gctgaaggac cgcgcccatg gccgtgcttg atgcgtctgt 420
ttcaagtatg aaagggatc 439

<210> 3592

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3592

aagctctcta aactttttgc aagaaanag tactaanaag taatataata ttttttttat 60
 tgatttttat gtatgaaatt aatttcatta gttatcatta acagacaaat tcaaggttgt 120
 aataattaaa atcaacgcaa tgtgataaaa tttggaggat gaactagagt atatttaaag 180
 aatttattta taataactta tttacatctt aattgaactt attttatgag attaatactt 240
 gtgtaactat ttaagaaaac ttaaaaaagt aattataata tgtttataag tcattttcag 300
 cttatatatt tcaaaaaact atttaaaata acttatatga aaataattta atcatgcata 360
 ttttctcttc aattataaaa acatttcata tantaaattt tacatgataa atacttattc 420
 aacaaatatt taattgagtt atttatccta gcataccttt aatt 464

<210> 3593
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3593

agcttctcaa gaaagcttcc atgatttgag tctttgatgc aatccttctt gtgaaggac 60
 gagtcacat agccatgagc atgatgctcc aagaggattg ggctagagtt gctgaagaac 120
 gccctangat tctcatgaac ctcaaggtag atctctaagc ccatgggcca aggttgggtc 180
 cacttgtctt tgtaaattt agaatagggt nttcttctt tgggccttat attctggcca 240
 ttctagttgt atagggtttt agccttgtat atcatggcat tttgagtagt cttttagtagta 300
 cggacttttt tctattttca tgnatttgg catgggggtg 340

<210> 3594
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3594

acgtccaagt ttcttgtgcc ataccagtg acttcctttg atggataata gacatgttac 60
 attttgattt gatagttcac taagattaat cttataaaga ttatctttcc ttttagcagc 120
 aaaaagttgg gtaccatttt tgtgttagac aacacaccca tcttcgctag aggaaaaatc 180
 aagtccacta tcacataatt gacttatgct aagtagatcc tatttaagcc ctttaacaaa 240

cagtacatta tcaatggaag gatagggatt agtacttatac tttcctatcc ctactatctt 300
ccccttctga tttcctctga aagtgactat tccacccatgc atgggagtcag agcattggaa 360
catacactnt tatcttatta tgtggcatga gcaacctcta tccaggtacc atgattgggtg 420
ttttc 425

<210> 3595
<211> 427
<212> DNA
<213> Glycine max

<400> 3595

cgaagcctca gtattttaag ccagaccatg taagtttcat tgggtgttta actgcttgca 60
aatatatagg agcagtatga aaagcaaggg actatttttc tctgatgatg aataactatg 120
agattgagcc atccataaaa cactacactt gcatggttga agtgctacgt ctagctgcgc 180
tactataaga agcagaacaa ctaataaagg gtatgcctct aaaggctgat tttattatat 240
gggggtcttt gctttcatct tgtaagaagc atgggaatgt agaaattgcg aaacgagctg 300
caciaagagt ctgtgagtta aatccaagtg atgccagcgg ttatttactt atgtctaattg 360
ttcaggctgc atccaaccaa tttgaagagg caatggagca aagaattctg atgagagaaa 420
gattggc 427

<210> 3596
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3596

tctggtggga catcttgact tgctatccaa tctgacattc accacttatt ctgccttctt 60
ctattntcag agtgtgaatg cctctaacag caccttagtc aatgattatc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggatg 180
gacatgtgga ggagtagctt gtttcttgag gtgtccatag gtaacagttg gcctttgatc 240
tgctgccctt cattagaact tcactcttct catttgcac caagcattct gactntgtga 300
agtttacatt gaatccttca tcacacagct gactgatgct gatcaagatt gcagtcagtc 360
ccttcaccag cagtactttg tccagactan gaagtccatc atgaactagc cttcccatc 420

caatgatc

428

<210> 3597
<211> 372
<212> DNA
<213> Glycine max

<400> 3597

gtggtgaagc tccttcttac ttgttttatt ccctagtgga tggcgctcc cctcttctct 60
tctcctttgc cttctgctgc atctccatgg tgaataatca ccattgaagg acctcattgg 120
agctcaaaga tccagccttc atagaatctt cacaagcaag cttccatcag ctgtcttact 180
ggatatcct caccctctaa atttatccga tgcatacatg tggatgggct aataccacca 240
atgtccacca gggccaacc tatagccttc ttatgcttct tgagaactga taacaacttc 300
tcctcttgct catcaacaag ggaggcagat ataattactg gaaaactttt gtatcatcca 360
agaagcatat tt 372

<210> 3598
<211> 366
<212> DNA
<213> Glycine max

<400> 3598

agatttcctg catgtctgtc tgtgtttaga attcgtacat ccaacatccc tatectatga 60
acagcagcaa cagataaact ataagttcca tgatcacttg catcaaaatc atgaggaatg 120
aactgctgca gtgatgcaat cttgcttatt tgctgtgtgt tatgatgcat actaccattg 180
accctgtcat taatattaaa aatagaatgt gtgaccttta caagggcagt agagggcaca 240
ttggctaaat gatcatggtc aagaaggtaa gctgcaactt ctcttatacc tgtctcccca 300
accctcactg aacgtttcaa tcctggttgt ccaagggctt tgccaacaaa acctttagga 360
ttgttt 366

<210> 3599
<211> 341
<212> DNA
<213> Glycine max

<400> 3599

ggatcctcat agacgtctga aaccccatca atccttggtc ttggaaaacg tctatcctgc 60
 cgactgtgat gactttgaca agttggaaaa tccaaactga cctcatagac tcctaataata 120
 agatttgatc tagcatatatt catggatggc attttacgcc aagattttgt caagggacta 180
 aatgcaagca cccctttgtg tgtattgaat gagctcctat ccactttccc aaagttagtc 240
 aagctagaac atcctccaac aatgaagata tcattctgta taccagcaac agagaacatg 300
 aacctttctc tgagaaatga tcattcttct gtccattgat c 341

<210> 3600
 <211> 335
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3600

acatcttgac ttgctntcag agctaacatt caccacatat tctgccttct tctattttca 60
 gattgggaat gcctctaaca gcaccttgt caatgagttt cttcatgcct cttaagtga 120
 gatgtccaaa tctttgatgc catattctga cttcatcttc tttgaaggat agacatgtgg 180
 aggagtaact ggtttcttga ggtgttcata cgtaacagat gtcctttgat ctgctgcct 240
 tcattagaac ttcactcttc tcatttgtca ccaaacattc tgactttgcg aaagttacat 300
 tgaatccttc atcacacaac tgactgatgc tgatc 335

<210> 3601
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3601

ctactttag acatagactt gcttgaaagc tttcttcact tctccttaag aaaccttaca 60
 aaggcaaaag ctgctctcac agctgcaaga acagctgcaa atgctattta tgttcctcca 120
 gctcaacaag gtgccataga tctacagagt gggattcttc acgcagagga gaaggattac 180
 aaaactgcat atagttattt ctttgaagct ttgagtcttt aatgctcttg atgaccccaa 240
 ggctgtattt agcctgaaat acatgtngnt atgcaagatt atggtgagtc aagctgatga 300
 tgtggctgga aacatatctt ct 322

<210> 3602
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3602

tgttgatatac gagtgtacat tgtttttctt ccatgtttca tttgtacgta gcttgtcttc 60
 ttcacagagg gcatggacga tggcccttaa taccatatcc actcaaattc tcatatgtta 120
 gaaagtcatt aatggtacaa aataccattg catgtaactt gaatgtctca ttctgattct 180
 catcaaacac gttaaccctt ttattccana acttccttaa gtcttcaatc aagggactta 240
 aataaacatc aatgtaattn tctaactgtc ttggccctga tatcatcata gagaacatca 300
 tgt 303

<210> 3603
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 3603

ttgtttcttg caattccaag acactagaga gcttttctaat aggtggcatg tctaacttgt 60
 gctttttcta tctaatttgc aacctgcaaa attagaatat gaaaagcctg ttagatttaa 120
 ggaagtatcc ttgggatacc ttaaacctac attggttgtg tccttaaggt acttaatgat 180
 ctttttgata gatgttaagt gagattcctt atgattggtc tggaccttgc acataagtaa 240
 aactccact tgtttaagta gaaaagtgat ccaatcatac ctctatatct tgactcatcc 300
 actggatttt c 311

<210> 3604
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3604

aacataagca cttacacttt gaatgaaagc tggagttgct gcacatgatg tccaacgtta 60
 tgtcaaagaa taagatcggg ctgcacaatg cacaaggcaa gataaagtgt caaatgaaga 120

attgaagctg taggattcac gatgtcggat acaatgtcca ggacatcctg cctgaaaata 180
 ctggaattgc taaaagcatt gaagctgcag gatccacgat gtcggataca atgtccagga 240
 catcctgccc ganaatactg cagttgctaa aagcattgaa gttgcaggat ccacgatgtc 300
 ggatacgatg tccaggacat cttgcccga aatactggac atataaatct gttatatctn 360
 taacagatta ttgtgcagtt agcaagagat tagatgatct atcttta 407

<210> 3605
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 3605

ggcgagtcta cattgattat acgaagctga accatgtgac caaaaaggat ctttttcccc 60
 tgccattcat cgaacaaatg cttgagcgct tggcaggtaa atctcattac ttttttcttg 120
 atggcttttc tggctattta caaaatcata ttgcttctga cgaataaaaa aagaccacat 180
 tcacctggcc ctttcgcact tttgcgtata gaagaatccc ttatgtctat gcaacgcctc 240
 ctgtactttc cagcgggtga tgccttacat tt 272

<210> 3606
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 3606

ctgagctaca gatatgctgg aagcagggaa taatataccc gaacctgttg ctgctttcaa 60
 gtatctgaga atcctataag ctgcttggtg atgagctgaa gaaggatgag ctacaaattg 120
 acttaaatgt tgcaccgat atgtgatatc aggcttcttg tttatgaggt aaatgacgcg 180
 accaatgagc ctacagtacg atgaagttgc tgtatcatca agtggagtgc cagattgttg 240
 gtgtagtctt acagcatagt caatgggagt tgagacaggt ttgcttccta acatgcctgc 300
 attacgaag atatcaagaa catattttct ttgaaaaata ttgatccctt gtttacttca 360
 agtccaagaa aaaaatgtta aagtaccaag atctttgatt ttaacaactt gatccagaag 420
 ctgagttatg gacttaattt ct 442

<210> 3607
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3607

catgatggtt gaatcaagat gattcaagga gttntgatga taatttagat gatgacaaaa 60
 agtccaagag aatgagttca agattgaatc aagaacactt caagaataaa gaggaaattt 120
 gatttcaaga atcaagtttc aagatttaag tttcaagaat caagaataat caagttgaag 180
 attcaagaat caagataagt actaaaaagt ttttcaaac attgagtagc acatgaattt 240
 ttcacaaaac cttttaccaa agagttttta ctctctagta atcgattacc agtttattgt 300
 aatcgattac cagtagcaaa gtttggtttc aaaaagcttt caactgaatt tacaacattc 360
 caattgattt caaaatggtg taatcgatta caatgattta gtaatcgatt actagt 416

<210> 3608
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 3608

aaagttaatt atttctcttt attattcaat caaaattata tcattagtaa atcaaccaag 60
 tgggtgaaca taaatgatta gtgtactgga ttttaagattg aattaatcga gtaatatccg 120
 agtttaaccc tcagcgaaaa taattactag atatttaagt ccaaaataat atcattagca 180
 aaaacacaca attagaattt ttttaagata ttttagtaagc acatcttata cttgatcaaa 240
 caagtaataa ctttaaggcta agcattggaa gtaacactaa ataaaattaa attggatgtg 300
 tcttaagaat attaattaat tcttaaaaat cacattaataa aaaaaaaga aagacattca 360
 taatatattt ttaatagaaa cttaactttt attcccttcc ctcc 404

<210> 3609
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3609

gcatgcaagc ttcatgatac acgtattgtn nttatatgcc aatagagann naagaagaat 60

accagtggta ctcataataa aaaaaaggta tggagaataa agaaacttat aacacacaca 120
aatataatat ttgtagtgtc tgttgacacc tccacacttt ggggagtcta gattgatgta 180
atcttctggt tgatattgaa tctataatct ataataattg attatcatta atgaaggata 240
tnttttgcaa gtgtcaagtt antactattc attgtataat acatttatac actgttgtct 300
tcttttatat tcattttctta tacacattct tctttaacat aattattaac attattattt 360
tagaaatcct ataaaacata ttttttagat aaagctattt ataataattt aaataatctc 420
cattcataat aattatttt 439

<210> 3610
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3610

ttttatttct ggagttcggt taaagctcga cctgtatctt tgtctctgct gtataagacc 60
aggctaccaa tcaagatatt ttttcttcac tgaaccatga acacttattt aggatttgat 120
ttacatgtta aacagttgct acttcttatt tattccttca atttctgagt gtatttttat 180
attaagaata tacactgatt taggagcacc aaattgttgt attattgtat ttctatacac 240
tggttattga ttttatttgt tgtggntaat gatttttatt ttattaacaa atatcagcaa 300
taatatttta gttttttaaa tgcctatcat ttaaaaactt ataggatttt taatatttnt 360
ttatattcag taaactctta cgagcttgcg agttaagttt gcggagtctc tacgag 416

<210> 3611
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3611

ngaaggtgtg taaccaccca ttttccatag tagaatactg gtaatgtgtc tactatcatt 60
gtcatcattn ttttttctcc gtcattgagg tgccacttga gctgccaggt ctctccacct 120
ttgggcatat ccttttgaaa gatttgtgcc cccttnttgc acatgttctg tagttgcac 180
ctatctgaag acattatact gacactgcct aacgaaggta accactaggt ccttccaaga 240

atggactcgg gaaggttcca agttagtgta ccaggtaaca actaccccag taagactttc 300
 ttggaaggaa tgtatcagca attcctcacc ttttgcatat gcccccatct tccgacaata 360
 catctttaga ttgttcttgg ggcaagtagt ccccttgtag ttgtcaaagt c 411

<210> 3612
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 3612

acaggaccac tttcatattc ttcccttgca ttggcataat gttcaattac tgtcaaggct 60
 tttggagcat ctataacttg ttcaactata ttttgtagaa catttcgggt gataagctgc 120
 atcaaattct tctttttcct ctgtattctt tcagcacgaa agtatttttt ggttttcaat 180
 tgcttggcaa ctgtagtttg tatctctcct ttgacaatct tcttccgtat cgcattccaga 240
 gaagccccct tctcaagctc ttctaacaat tcttttcttg cttcctcaaa ttccatctaa 300
 ttcaattaag cagtgagtgc caaaaagtat tgtagagaaa aatgaaatat gatcgacaat 360
 ctaagtaatt aatatttaat actcagcaga aaaaagaaga aatcagaaca gatgttataa 420
 agttacaagt tgggtgtccc ga 442

<210> 3613
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3613

tggcctcaac aaacttctta ttcccagaag gaaattcaat ttataggcct catatttgta 60
 atggagaggc aatagactta aacatttggg aagccataga agtaggactn tatgtaccca 120
 ccatggtggc ttgaaatgca acaatagaaa aacctagaga agaattggact gaagatgaaa 180
 gaagattagt gcggtacaat ttataggcta aaaacatcat tacttctgcc ctacgaatgg 240
 ataaatattt tagggtttca aattgtagga gtgctaagga tatgtgggac actctacaag 300
 ttacacatga aggcacaact gatgttaaac gatctaggat aaatacttta acttatgagt 360
 atgaatcggt aggatgaaga caaatgatag tttcaagata tgcaaaaaga ttccacatat 420

agtaattatc

430

<210> 3614
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3614

tgccgcatgc attcttcaca aaaccttatc agggtcacgt gaaggatata taggcatgga 60
cagaattcat gtaacatcaa gaggaacaaa acgatcatga ataagagtct catttcatgt 120
ggccgctgaa gaatgaataa gagaacttac tgctaaatcc gcacgcccac caatatgagg 180
agaaacaata tatgaatddd gtgaatcttg aagccatggc tcagtccana tttttatctt 240
tgtgccatct accactttcc atctaatagcc atctttgact aaagcttggt aagtgtgaat 300
actatatgtc aagtataact tgggttatgt cccaaagagg aaccaagaa ctccccatta 360
tggtaatatt ttgccttgaa aacttggtgaa acaacagcat cctggtcaga agctagcttc 420
catcctt 427

<210> 3615
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3615

tctatggatt gatacaagcc ttccgcaatg cgaattaaaa tttcatgagg tcatttcttc 60
attcagctct gaagagaatg tcgtggatct ctgtatatac cacaaggcca gcgggagtaa 120
gatttgcttc cttgtattat acgtaaataa tattctgctt gcaactaatg ataaaggat 180
gctatatgaa gtgaaacaat ttctctccaa gaactttgat atgaacgata tgggagaggc 240
atcttatgtc ataggcataa agatccatag agaaagatct cgaggaattt taggcttgct 300
tcaagaaacc tatatcaaca aagttntaga gagagttaac atgaaagatt gttcaccaag 360
tgtagctccc attgtgaagg gtgacaaact cgct 394

<210> 3616
<211> 459
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3616

gacaagacta tacgaggtat cttccttggg tataacaata tctctaaggg ctaccgtgtc 60
tacaacttgc aaactaagaa actcgtcatc agtcgagatg ttgaagttga tgaatatgct 120
tcttgggaatt gggatgaaga aaaagttgag aagaacgttc ttatacccg c tcaactacct 180
caagaagaag ctgaggaaga agacccacgt gaaccacctt cacctgcacc acaacaacaa 240
gatcaagaac tatcatcacc agagtctact tcaagacgag taagatcttt ggtggacata 300
tatgaaacct gtaacttggc catacttgaa cctggaagct ntgaagaagc attaaagcac 360
gaagtatggg tcaaggccat ggaagaagag atacagatga tcgagacaaa caacatatgg 420
gagtttgtga atcgtcccca tgggaaagat atcattggg 459

<210> 3617

<211> 399

<212> DNA

<213> Glycine max

<400> 3617

agcttacaag gttgtctgcg gtgttagttt tgggtgactt gaaggcaaga tttgggtgga 60
gcgataaaag ctttactaaa ttggtggtgt tattgaagaa aatgcttcct gaacaagaca 120
cattgccgaa aaatcactac gaggcacaaa agattttatg tcctatagga atagagtatc 180
ggaagatcca tgcattgccct aatgatttca tattatataa aaatcagttt gcagaaatgc 240
gttagtgtcc cacttgtggg gtatcatgat acaaagtcca gcatgatgaa ttcagtgatg 300
atgcaagcaa acagaatagt catcccacaa aggtctgctc gtatcttcca atcataccaa 360
tgtttaagcg attgtttgct aatatacata atgaaaaaa 399

<210> 3618

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3618

aagatggcct cagcanattc cttgtttcca gaagggaatt ctataaatag acctccaatc 60

tttaatggag aggggttacca ctactggaaa acccgaatgc aatattttat cgaggcaata 120
 gatctaaata tctgggaagc cattgaaata gggccttata taccaccac agtagaaaga 180
 gtttcaatag atggtagttc atcaagtga agcataacca tagaaaaacc taaagataga 240
 tgggtctgaag aggatagaaa acgtgtacaa tacaacctaa aagccaaaaa cataataaca 300
 tctgccttag gaatggatga atatttcaga gtttcaaatt gcaagagtgc taacgaaatg 360
 tgggacactc ttcgattaac acatgaagga actacagatg 400

<210> 3619
 <211> 225
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3619

cagcttagcc ttgttctcc caaccttaca tgtttcatca aacttgtttc taaacaccca 60
 ctntgctcca acaacagatt ttcctttggg gagttctaca agcttccata catcggttatt 120
 ctaaaactgg tgtagctctt cttccattgc tttgaccag tattaattag acatgatatc 180
 atctatgtgt ttttgc tca tctcagatag tagtggtgtg ttctt 225

<210> 3620
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3620

ggagggagaa taaaacaatc canaatcaat tgtgctcttt caagtcacga agaattcttt 60
 gtgcggttt tagatgagga gaggtaggag cctccataaa gcgacacaca actcccaccg 120
 catatagaat atccggcctt gtattggta gatacttaa actccccaca agactctaga 180
 agatcgtgga gtctaccttc tctccttcat caaactttga taacttcaag ccaccttcca 240
 taggtgtgat cacgggattg caatcaagca tattaaattt cttcaacact tcttttgtgt 300
 acctttcttg tgagacaaag ataccattct ccgtttgctt cacttccatt cccaagtaat 360
 atgacatgag ttccatatct gtcatatcaa attca 395

<210> 3621

<211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3621

tctttgagtc gatctgccgc atgcaagctt gttgcaattc ttctagactt ggagttataa 60
 catgcagtcc tcttgaaccc ttacctcca ctctntcgtc atgccgggac tcaggaaacc 120
 caacaggtnn tgcctttttca atgtactctg aacaaaactc aatagcttct tttgcaatat 180
 acctttcaat aatagatgct tcaagacagt ctagattctt tgcataccct tttatgattt 240
 tcatgtatca ctcaaccagg tatatccacc acaataaat gggaccacaa catctaattt 300
 ccctcaccag atgaacaatt aagtgcggaa cca 333

<210> 3622
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3622

gcaccaacca ccaacactcc agaatcagca tatgatgtat tcggaagctt catcagtgcg 60
 agctcgacag tagccgagct gacagaaacc gatccagacg aaatgttagt ctcagttcta 120
 acccgcttac caaccgagat cgcttgett g aacaaaccac taattttctt atcagaacca 180
 ggcaactcct gtccagctnt cacaacctgc ttaacctgag caagaatttg accttcccca 240
 agaacaagtg agtcatgccc tgccgccact tcaaagagat gctgcatgac atccgcgtta 300
 tacagcaaaa cttggtgctc acaaagctca tgtattga 338

<210> 3623
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 3623

gattccttct tgagcttgga gctgcatgga atttctaata ttctgactca catatgctac 60
 atcatgagac atcacaccaa ggcctttcag cagcttataa cccaagtgca agctagtctg 120
 caagaataaa atatttagca ccagttttca agcatcatgg gagggaaaga attttttgac 180

agtacctctg cattctccaa aatggcatcc gttgcacctg tcttctttag atctaaaaga 240
 tgctcgagat caccagcttc tggataaact gggatctgag gaatttcac actaagtata 300
 ctatttaacc acgagagaag agaacag 327

<210> 3624
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3624

gaaacttctt tgagaagctt ctntgagaaa acttccttga gaagctagag cttagctaca 60
 catacccctc tcataactaa gctcacctcc ttgagaaact tccttaagaa gattcctaaa 120
 gaagctagag cttagctaca catacctctc taatagctaa gctcacctcc ttgagatggg 180
 aagctagagc ttagctatac acaccctata atagctaagc tcaccccat gaaaaaaaaac 240
 atgaaaatac aaaaaaaaaa gtccttacta caaagactac tcaaaatgcc ccaaaatata 300
 aggctaaaac cctatactac tagaatggcc aaaatacaaa gccagacga aggaaaaacc 360
 tattctaata tntacaaaga taagcgggct catacttagc ccatgggctc gaaatctacc 420
 ctaaggctca tgagaactct aggggccttc cttggatctc ta 462

<210> 3625
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3625

gcgaagtggg tggaattcct agagcaattc ccttatgtta tcaaacataa aaagggaaaa 60
 ggtaatatg tagccgatgc tctttctcgg cgtcatgcat tactttctat gcttgaaaca 120
 aaattgattg gtcttgaatg ttgaaaagc atgtatgaaa atgatgaaac ttttgagaa 180
 attnttaaaa attgtgaaaa attttcagaa aatggtttct ttagacatga aggctttctt 240
 ttcaaagaaa acaaattgtg tgtccctaaa tgttctacta gaaatttgct tgtttgtaa 300
 gcaccatatg aggtttaatg gggcattttg gggccaaaa gactctataa acattacaag 360
 aacagtttta ttggcctcat atgaaaaagg atgtgcagaa tatttgtaa cattgcatta 420

tatgtaaaaa

430

<210> 3626
<211> 432
<212> DNA
<213> Glycine max

<400> 3626

ctaagctcgc catcttccct gcaccaacca ccaacactcc agaatcagca tatgaggaat 60
ccggaagctt catcagtgcg agctccacag cagccgagct gacagaaacc gatccagacg 120
aaatgttagt ctcagttcta acccgcttcc caaccgagat cgcctgcttg aacaaaccac 180
taattttctt atcaaaaacca ggcactctct gtccagcttt cacaacctgc ttcacctgag 240
caagaatttg accttcccca agaacaagtg agtcaagccc tgccgccact tcaaagagat 300
gctgcgtgac atccgcgtta tacagcaaaa cttgggtgctc acaaagctca cgtattgaaa 360
tcccgctcac ctaaacaaaa aaacacaacc gtgagttttc tttctaaact aaaactagaa 420
cagaacatgg gt 432

<210> 3627
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3627

tgtcattcct tcttgagctt ggagctccat ggaatctcta ataagctgac tcanaaatgc 60
tacatcatca gacatcacac caaggccttt cagcagctta caaccaggt gcaagctagt 120
ctggaagaat aaaatattta gcaccagctt ccaagcatca agggagggaa agaattcttt 180
gacagtacct ctgcattttc cacaatggca tccgttgac cttgctttct tcagatctaa 240
nagatgcttg agatcaccag ctctggcata gattgggac tgaggaattt catcactaag 300
tatactatta aaccaagaga gaagagaaca gaaatatagg aagatcccaa acacacaccg 360
ttacaaaatt ttattagtca acgtcacccc taatataaac ctaacatgta catgtcct 418

<210> 3628
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3628

cttgagcaat tcanatggta ataactgttc actcggatat tctatcatgc acataatata 60
tcgagacgct cgaaatttaa catcggaagc ttccgagcaa ttcaaattgg cataacttct 120
aactcggagg tccgattgag ggcataata tatcgagacg ctcgatattg aacaatggca 180
gctcttgagc aattcaaattg gtaataactt ttcactctga ggtccaattg acgcgcataa 240
tatatcgaga cgctcgaaat tgtacaatgg aagctcctga gcaattcaat tggccataac 300
ttctaacgtc ggag 314

<210> 3629
<211> 385
<212> DNA
<213> Glycine max
<400> 3629

agctttaagg aggaggagat aactaatgca gtgtgtgctt gcggaggaga caaaagccca 60
gggtctgatg ggctaaattt ttgtttcatt aagcatttct ggagcatcct gaaacctgaa 120
ttccttaggt ttttctcaga gtttcatgtc aatgcaacct tccctaaggg cctaaattca 180
tcattcattg ctcttatccc caaaatcaaa gatccccaac tcctttctga ctttagacca 240
atatacctaa ttggatgtgt ttataaaatc attgctaaag tcctagctaa tagggtcagc 300
aaggttatga atcacctctt agatgaaagg caatcagcct ttggtaaggg cagacagatg 360
cttcatgcag ttttaattgc taatg 385

<210> 3630
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3630

cgcatgaatt acattctccc nctttctcaa gcaaattctt aattcttctt gacatcatca 60
aaatcttcat catcaataat ctttaaggagg ataggcttaa aatacagaag aagcaacaac 120
aatcaattta acaatgttct ttaaacaatgc aagacacaat tgattgcaaa aaattaaata 180
agataaggga agagagaatg caaacacagt tttatactgg ttcggccaca tcccgtgcct 240

acgtccagta ctcaagcaac ccacttgaga tttccactat ctttgtaaaa tccattacaa 300
 agtctgaacc acacagggac aacccatccc ttgtgttcag gaatcctnta caacaagaga 360
 ctcacagtcc cttaaccaat ctcatatgaat 390

<210> 3631
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 3631

taagctcctt caactgcaca aggctcttaa tatttgaaga gtattcttgt ggaaccttca 60
 cccgacgaag aacttgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120
 ggggcaagta aatattcttc ccatcagacc ttggatgcaa ctgtgatctt ataccatata 180
 cagctagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg tttaggagcg 240
 tcccaatcac actgtcacia acatttttct gcacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc acaccagtac agaagatcaa agaaaatata cctcttcttg catatgtgac 360
 tctgact 367

<210> 3632
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 3632

gtgtggaccc tctagtgcaa tcttccattc ttctcttttt tcggagccct aagaatgtca 60
 ttgcctagcg ctgttcatgt gtcctccacc ttcgagtctg gagccccgag aatgtcattg 120
 cctagcactg ttcgacaatt ctccattctc cacttttatt cggagcccca tgaatgacat 180
 tgcctagcgc tgttcatgtg tcttccaccc gcgagtctgg agaccgcta acgtgattgc 240
 ctagcgctga ctgccaattc tcc 263

<210> 3633
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3633

gataagagcc ctgtttcact ttaactgctg gaacattggg tgtaccttgc acctgagtat 60
cttcagtatg gaaaagccac tgataagact gatgttttca gctatggggg ggttgtgctt 120
gaggtggcctt gtgggaggag gccaatgaa agagaagggt ctaagatgtt gaatctgatt 180
gattgggnntt ggggccttca ctctgaagga aaagtgattg aggcagctga taaaagggtg 240
aatgggggatg ttgaggagga ggagatgagg aaattgttga ttttgggggt gagttgtgct 300
aatcctgata g 311

<210> 3634

<211> 278

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3634

cgcatgccag ctgggactga gcattgatga agatgctggt gaattatatg ctgacatgcc 60
tcctnttgag gacgctgatg cagatgctga gggtagcaag atggaagaag ctgatctaaa 120
tctgacttaa atgcctgtta cgttcttaga aacaatgatt ggagaaacag tctttctact 180
atgggtctatg ttcttcgaat tttcgaaatt ttggaacgtt ggctagttac gtgccgcatg 240
ttgtacttct ttattggata tttgcgtcct tccttgcc 278

<210> 3635

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3635

ccaatgccta caagattaaa tcctaagcta tcagccagat actatgttcc ttattgggta 60
gttaanaaaa ttggagcagt ggcattgcag ttgcaattac ccgacgctgc tcgaatccac 120
cctgggttttg acatatccga attgaaactc gcagtgggag aacatcagat cgaggcagaa 180
ttgccaaagg aactacaagc tgaagaacaa gggatacaac cggaacaagt actggtaaca 240
agaatgtttg gtccagcagg agcagaaatt ccacaagtat tcatacaagt gaaaggacga 300
catgctgaag gagcaacctg tgaggacaga tcaaatatga tgcaacaatt ccctgctttc 360

aaccttgagg aca

373

<210> 3636
<211> 353
<212> DNA
<213> Glycine max

<400> 3636

agagggttaat gaaacaatga gatgtttttc tctatgagag gttggatcaa atgggtgaatt 60
tagatcctta tgcagaagaa aggatgagaa gagggaaatga tgggtgttcct agacaaaacc 120
gaattgatgg tattaactc aacatttctg cttttaaagg aaagaatgat ccggacgcct 180
acttggtgtg ggagatgaaa atagagaatc ttttctcatg caacatctat gaggaggacc 240
aaaaggtgaa gcttgctgcc acggatgatt cggactatgc tctagcgtgg tggaacaagc 300
tatagaaaga gagagcatga aatgaaaagc caatggttga acatgggcgg aga 353

<210> 3637
<211> 422
<212> DNA
<213> Glycine max

<400> 3637

gcgaagtggg tggaattcct agagcaattc ccttatgttt atcaaatata aaaaggcaaa 60
aggtaatata gtagccgatg ctctttctcg gcgtcatgca ttactttcta tgcttgaaac 120
aaaattgggtt ggtcttgaat gtttgaaaag catgtatgaa aatgatgaaa cttttggaga 180
aatgtttaaa aattgtgaaa attcttcaga aaatggtttc tttagacatg aaggctttct 240
tttcaaagaa aacaaattgt gtgtgcctaa atgttctact agaaatttgc ttgtttgtga 300
agcacatgaa ggaggtttaa tggggcattt cgggggccaa aagactctag aaacattaca 360
agaaccattt tattggcctc atatgaaaaa agatgtgcag aacatttgtg aacattgcat 420
tg 422

<210> 3638
<211> 173
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3638

gaaaacgaan accctcgaga aattcttatg gttataactc gccacacgga aggtcgatta 60
acgcgcagac tatatcgaga cgctcgaaat tgagcaacga atgctctcga gaaatctata 120
tggccataac ttgtcacacg gatgtccgat ttaggggcat aatatattga gat 173

<210> 3639
<211> 426
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3639

gacaagacta tacgaggtat cttccttngt atagcaatat ctccaagggc taccgtgtct 60
acaacttgca aactaagaaa ctogtcatca gtcgagatgt tgaagtttat gagtatgctt 120
cttgggaattg ggatgaagaa aaagtggaga agaattgtct tatacctgct caactacctc 180
aagaagaagc tgaggaagaa gacccaggtg aaccaccttc accttcacca caacaacaag 240
atcaagaact atcatcacca gagtctactc caagacgagt aagatctttg gtggacatat 300
atgaaacctg taacttggcc atacttgaac ttggaagctt tgaagaagcg tcaaagcacg 360
aagtatgggt caaggcaatg gaagaagaga tacagatgat cgagaaaaac aacacatggg 420
agtttag 426

<210> 3640
<211> 196
<212> DNA
<213> Glycine max
<400> 3640

agcttgtagg tcttgaatct tcttcatcaa tggagtcac tacttcttga agatcaattg 60
cagcggaatg gaaatggaag aaagatgatt ggagacgcca ctttaaggag aagatgagtc 120
aagaagaagc tcaccacat aggaaagcat gaataagagc ttgaaggtac gagaaaatga 180
gtggaaggag agggac 196

<210> 3641
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3641

catgcaagct ttgatctacc accaccaccg ccaccatcat cttagtntc tattatTTTT 60
aatagtatta gcattttgat ttctagccat gtatttggtg gaccttggtg cctcaataat 120
cttaagaggg ataggcttat aatacagaag aagcaccaac aatcaattta acaatgttct 180
ttaaacatgc aagacacaat tgattgcaac aaaataaata agataaggga agagagaatg 240
caaacacagt tttatactgg ttcgccaca acccgtgcct acgtccagta ctcaagcaac 300
ccacttgaga tttccactat ctttgtaaaa tcctttacaa agtctgaacc acacagggac 360
aaccatccc ttgtgtcaga tgctt 385

<210> 3642
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3642

actaagctat gctgcaaaca ttataataga ccnctcagc agcaaaacca tcaacagcag 60
aataattatg acctttcaag caatagatac aatccaagtt ggaggaatca tccaaatctg 120
agatgggcaa gtctccaca acaacaacag cctatccctc ccttccagaa tgctgctgct 180
ccaagcaggc catatattcc tcctccaatg cagcagcagc agcaacaaca acaacaaaga 240
caacaagcag ctgaggcccc tcctcaacct tcagaatatg caatttcagc aagagacaag 300
agcctncatt cagagtctga caaatcagat ggggcagatg gctactcagt tgaaccaagc 360
tcagtcctaa aatttgacaa atggcttcat aaactgtgca gaatctgaaa 410

<210> 3643
<211> 412
<212> DNA
<213> Glycine max

<400> 3643

ttataagata ttggtatTT ttagtataga caattatgct caacttaggt aggattattg 60
ggcatgataa atctatcctt ttaaataattt aacataactc tacacttagt acttgaattt 120
gagaccacta gctaagataa aataattttg cgccaattaa tcaacatggt agcttttatt 180

ccatgtaatt tgctaattac ttacatatat gtgcgaaaca tgataaagac taaataactt 240
agataatata atagtagatc atcaatgagt atgcattaca gagatataat atatgatgga 300
gaaatagttc tggtaaccaa tagaaattgt aaaattcttc gctttaactg tgtattatac 360
aataataagt gttaaaaacc cctcatggta tcgtgggttc attgacaatg ac 412

<210> 3644
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3644

agcttcatat ttncaccaga tgacaagcag aatttccttg gctgggagaa gctgcagaat 60
attgctcttg gtatagctaa agggattggg tatcttcacc aaggttgtaa ccatcccatt 120
attcactttg acatcaatcc tcacaatgtg ttacttgatg acaacttcac tccaaaaaatt 180
tctgattttg gcttagcaaa attgtgttcc aagaatccta gtttggtgtc catgacagct 240
gctaggggaa ccttgggata cattgcacct gaagttctct ccagaaactt tgggaatgtg 300
tcttataagt ctgatattta tagctacgga at 332

<210> 3645
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3645

attgaaggat gttgtggaaa attattgtct ntntgatttn agaagcttta ctgttttttt 60
atcagtaatt acaaaaatat tatcttattt ttttacctca tgtcatgatt tgaagaaata 120
tgtttgctac aaagtactga tactttaatt tgcttcatgc atctatatct gataccaata 180
tattgatata tttcactggt acatatatgt gaagtgacca attcttttaa aaaaattatg 240
atcaaataata gtgacatgta acatagaagt aagtataata taaaaatata caaagtattg 300
tttcttgatg aaccaaatat gacaantggt atgtgtatag ataatttcaa gacagacatg 360
agatcgatca ttgatagtac cattcttaat tgtgaacaat aggaaaaaat gatctac 417

<210> 3646

<211> 255
 <212> DNA
 <213> Glycine max

<400> 3646

agcttgacag gttcatgcgc atgtttctgct actggtggag gcacttgaat ctggttgccc 60
 aacctcaagg agacggcact cacatTTTTT ggattctgca tagcccgca acgcaatttg 120
 tcagaatttt gggactgagc ttgattcata tgagtagcca tctgtcctat ttgatttgc 180
 agactctgaa cggaggctat tgtcttttgt tgaaattgca tattctacat ggtcatttgc 240
 ctcactaact tttct 255

<210> 3647
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3647

cttgatgcaa cattaggaga ggttaatgaa acaacgagat gatgcgctcc atgagaggtt 60
 ggatcaaag gagaatagag atcataatga agaagaaagg aggagaagag ggaatgatgg 120
 tgttcctaga caaaacaaaa ttgatggtat taaactcaac attcctccat ttaaaggaaa 180
 gaatgatctg gaggcctact tggagtggga gatgaaaata gagcatgttt tctcatgcaa 240
 caactatgag gaggacaaaa aggtgaagct tgccgccacg gagttttccg actatgctct 300
 tgttgtgtgg aacaagctac aaaaggagag agcaagaaat gaagagccaa tggttgatac 360
 atggacggag atgaaaaaga tcatgaggaa gcggtatgtg ccggctagtt actcaaggga 420
 cttgaaattc aagctccaaa aactaaccba aggcaacaag ggggtngagg agtatttcaa 480
 ggaaat 486

<210> 3648
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3648

gcctcttcac gtctagaata tgaatgaagc atatagatcc aaataccctc aggtgctttg 60

ctgatggctt cttctcggtg caagcttcaa ttggagtctt gtcttttaca gacttagttg 120
gacatctggt gagtatgtaa acaactgtgt agactgcttc agctaagaat gtgtagata 180
gtctcttctc tttgagcatc gatctagcca ttttcgtaac tgtgcgattc tttctctcgg 240
acactccatt ntgttgagga gaatatgcaa ctgtaagttg ccgctcaatg ccttcatect 300
tacaaaatct ttcaaactcg cgagaggtgt actctatgcc gcgattactt gttagtactt 360
ttatacgtn tccactgtga ttctcagcaa gggccttgaa ctttctgaat acttcgaaga 420
cgtctgatct ttcttttata anatataccc atgtcattct agagaagtca tcaatgaaga 480
gtatg 485

<210> 3649
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3649

agcttctaca gtttcttggg ttgaccattg tctctgtcat atcatcttta atggnccttg 60
catgcttagt catgatgcaa tcctaccccg caagggcatt ggatacaaga ctctcagtag 120
attgggcctg agatccaagg gaaggcccta cggttctcat gagccttacg gttgatattg 180
agcccatggg ctaagtatga gcccgttag gccttgtatt ttaccttatg attgagagtg 240
ttgtgttggg aaccttagat ggggccatcc agacactctt aagattcgcc taatatacat 300
tacttgctta ctttcgtcgc ttattacttg taccttccat tgtcacaccg cctagatagc 360
ttgcatatta ccaagtagtt gttaccttat ctttcacaca ctctttag 408

<210> 3650
<211> 453
<212> DNA
<213> Glycine max
<400> 3650

ctttctattg gattcgtcat atcttcatct aatgtagat catctgttcc aacttcagaa 60
ttatcgtccc gtccaattct tgggtttcct aggtcagatg gtcatatgc agtatcacta 120
ccataatctg aggcaacaga tgaactgcca gcgaataatg ataaactcga ctggagaggt 180
gattgcacag aataaactgt gttattggaa tcggcgtctg tttcacaatt ctgctggctt 240

gcacatcttga atgctaagt attaaatgag gtataaaata tcataatttg cgagagctaa 300
 caatcgatta gcacaaaaca gaccatactg acatgtttga ggaaactaag tgcaagttgc 360
 aaaagataat cacatacaag atctagcagc tgcttctagt tcaagaaatg acgccacggc 420
 agcacatcgt gatatatcaa tgtcagataa tag 453

<210> 3651
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3651

tgtgtcacia ttcatgtgta cagtcaaagt gtcattcact tagcttatca ccaaattgtac 60
 catgagagga caaagcacat agatgtgaaa ctacacttca ttagagatgc gattgaatct 120
 aagaaggatga aggtggagaa ggtttcaaca gaagaaaacc cggctgatat gttcaciaaag 180
 tccctctcta gtgtcaagtt caagcactgc ttggacttga taaattntga agatgcctaa 240
 agcagattgg tagaagtgca gctctaaatc acaaggtaga cactcgctga ttagagtca 300
 aagtggagat ttgtggtgtg tgactcacia tcacatatga cacaagtga aagacttta 360
 agtagtggtg tcataactgt ttttaagttat tataactaaa ctggggttgg caccaaagca 420
 taactagagt gtacatatat attctcgatc atgtaat 457

<210> 3652
 <211> 480
 <212> DNA
 <213> Glycine max
 <400> 3652

ccatgatgat gaagccaagc aatttgatga tgccatatgc ccatgtgatt gattcaagat 60
 tgattcatga attcaagatc aagcatgaag aatccaatcc aagattaaag agaagatatc 120
 acgaagcaac aagtcaagac ttcatatagg ataagttgta aaagattctt tcaaaaatca 180
 aatagcagag ttttgtttta caaaagaatt ttctaaagtt actagagtga ttactctctg 240
 ataatcgatt accaattgat agtaatcgat tactagtgc tagactgggt ttcaaatgt 300
 tctcaaatga tatgtaacgt tccacaatga ttttcaaata gtataatcga ttacactata 360

ttagtgatcg attacaagtg aatctgaacg ttggaattca catccaattg tgaagagtca 420
 caactcttca taaaatacat cggataatca attataccat ggcggtaatc agataccagt 480

<210> 3653
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 3653

ctaagcttaa tggcctagtg aggatggaga ggtgcaagta aggaatcaag tgtagttgga 60
 tatttccatt ggaaagtaca atgataaggt gctctgtgat gttgttccta tggaggccag 120
 ccacttactc ttgtggagat catggcaatt tgataagagg gctaatacat atgggttcac 180
 caataagatc tctttcacac atcaaggaac aaagatagtg ctcaaaccat tgagtccaca 240
 agaagtgtgt gaggatcaca gaacaatgag agagaaaatt cttcaagagc agagagatca 300
 agaaaaagag agcgaaacac ttgagagttc acaaagtgat gaaaaaaga gggacacacc 360
 agagaggaat aagatgag 378

<210> 3654
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 3654

agcttgtaaa ggtatgtata taataagtgt tcaagattga atgaatgaat taattgaaaa 60
 gcaaaccaca gctctgcttt tatagactct tcatgtctgg ccaagaggac catttataag 120
 agctacaact tttagaataa cttaaaacca atttgaaaaa gtcaaaacct ttttgaagag 180
 ttacatcttt cgatttattc agaaacattc actggtaatt gagtaccaa atagtgtatt 240
 cgattacaca aggcttttat gtgaaaggat gtgactcttc acatttgaat ttgaatttca 300
 cattcaaggg actggattcg attaccaaac attgtaatga taccgttttt gaaataattg 360
 caccgtgcaa ttcatttgaa acttttcaaa catttgcact ggaatcgata caacattgta 420
 tcatac 426

<210> 3655
 <211> 383
 <212> DNA

<213> Glycine max

<400> 3655

agcttctggc tgttcttaaa tatattcaca aagaaagggt agaacaaaga aagtttctaa 60
ctatcaagtt ttttgttctt tccatttttc ttttaaacia ttaagcttca acaatgtcat 120
gagttaagtg tgtaactgca tcaatgtgca tgggacaggt acttgacggg tttcctatat 180
ttcacgggca ttaatttcgt tttgacgttt gttgctgcta ttctctgtgt gtgttttgca 240
cccacagcag caagacctgg aattcctgaa atcaaagctt atcttaatgg tgttgatact 300
tccaacatga ttggtgctac aacattgatt ggcaaggtaa cattaattat ttgattgtat 360
gtaacactgt ctctgttctt tca 383

<210> 3656

<211> 323

<212> DNA

<213> Glycine max

<400> 3656

agctcctgta aaatatcaag ataacgagca taatattgct ctttttcctt ctggaaggc 60
accaaaggggt attgttagtg ttttagctcta ctgagctcta caagattggc taagattttg 120
ttaaaacata tgcacttata caatgaatgg aagctggagt tgctgcacat gatgtccaac 180
gttatgtcaa ggaataagat cgggctgcac aatgcacaag gcaagatgaa atgtcaaag 240
aagaattgaa gctgcataat tcacgatgtc ggatacaatg tcctgacatc ctgcccgaga 300
atactggagt tgctgtacaa tgc 323

<210> 3657

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3657

agctctacat tactcctcat gcttntcacc atgtattata acgatcgatt tcttcgttct 60
gccacacat tctgattcgg agaaccaggc atagtgtatt gcgcaacaat cccatgttct 120
tgaagaaatt tcgtaaata acctcgggct tgtccatcct ctgtggatct accatagtag 180
tccccacctc tatctgatct caogatctta atttattttc cacattgttt ctcaacttca 240

gccttataaa ctttaaaggc atctaaagct tcattcttag aatgaagtaa gtagagatac 300
 atatatcgtg aactatcatc tataaagggt atgaagtatt tcggactata tgcattccatg 360
 tcctgacaac atatgtctgc atgcatgatg atttctaata aat 403

<210> 3658
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3658

cgtgttacga acgataagaa ttcgaagatt cttcatcttc tcaaatacag tatcaataca 60
 attaatttct tttctatgaa ggggggtcgag cattattcct tcaatttcgc tacttccctt 120
 taaatcaatt ataactggca ttaattaagt attcataatt tcaacaaaaa ctaaaatgct 180
 taaggatgat aaaaatcaag aaacaaagtt gacaacaata ttcttacatt atcatcttct 240
 aataacttgaa gaacatcttc atgggtgccat aatctgctgc gttcgccaat tttattggat 300
 gctttctcct taactatctc tctacccatg tctngtatta gatcatgcat ncacaggcaa 360
 tcatagtcaa cagttaaaag tgatttatta actaatgttg taataccatc tcctgagctg 420
 aaatcagatg catctnagta cagttntaca taatccaatc gttgcccttt gaaaaacatg 480
 caacatc 487

<210> 3659
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3659

agcttctcgg gggacatctt gacttgcnt ccaatctgac attcaccata tattctacct 60
 tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatcttga tgccatattc tgacttcac ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgcc atacgtagca gttgtccttt 240
 gatctgctgc ccttcattag aacttcacac ttctcatttg tcactaagca ttctgactat 300
 gcgaagatta cattgaatcc ttcacacac agctgactga tgctgatcaa gt 352

<210> 3660
 <211> 466
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3660

tctggtggga catcttgact tgctttccaa tctgacattc atcacaaatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacttttgtc aaggattttc ttcattgcctc 120
 ttaagtgcag atgtccaaac ctttgatgcc atattctgac ttcattcttct ttggaggata 180
 gacatgtgga ggagtagctg gtttcttggg gtgtccatag gtaacaattg tcctttgatc 240
 tgctgccctt cattagaact tcaactcttct catttgtcac caagcattct gactntgtga 300
 agtttacatt gaatccttca tcaaacagct gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactag gaagtccatc atgaactagc tntcccattc 420
 caatgatctt tccttttagag ccattctccaa atgtcacata actagt 466

<210> 3661
 <211> 304
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3661

agcttctggt gggacatctt gactcgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctatct tcagattgng aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttcctttggag 180
 gatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gatgtccttt 240
 gatctgctgc ccttcattag aactccactc ttctcatttg tcaccaagca ttctgacttt 300
 gtga 304

<210> 3662
 <211> 359
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 3662

agcttctatt ctttgtacaa gaatgaagct ctgataccac ttgntagaca agtggcctca 60
gatatcttaa gaaggggggtt gaattaagat atcacaaact attccctaataaaaaattct 120
aatttgatgt taacccaaat cctaagattc cttttaaaat gaattcctaa ataattattc 180
aaattaaact tactgaatag aagcaataag caataataaa taaaagagtt taagggaaga 240
gaaagtgcaa actcagtttt atactagttc ggccacaccc ttgtgcatac gtccagttcc 300
catgcaaccc gcttgagagt tccactcaat cgcaaaaacc ctttacaagt tctgaacca 359

<210> 3663

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3663

ctaagcttan aagcatagcc tcataagaat tggatagaag actccattaa gattgcgcta 60
tagatgcaag agaagaccct agggttctca tgtgccttac ggtagatctt gcgtccatgg 120
gctaagtatg agcccactta tctttgtaca tattaaatta acgtttcatt atttttgggc 180
cttgtattta eggctccata gtgtacggag ggtaccctac tattgtacga tttttcaacc 240
cttgtatttt aaaacaccta aactagtttt tgtattaagg gtagttttat aatttcatat 300
gcattaagcg tactatttga tgtgtgatgg gagataaatt taattgaatt gcgagaagcc 360
cactcaaatt acattttgga 380

<210> 3664

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3664

tgccgcatgc aagcttctgg tgggacatct tgactngctt tcttatctga cattcaccac 60
agattcttgc cttcttctat tttcaagatg ggaatgcctc taacagcacc tttgtcaatg 120
atattcttca tgcctcttaa gtgcagatgt ccaaactctt gatgccatat tctgacttca 180
tcttctctgg agaatagaca tgtggaggag taactggttt cttgaggtgt ccatangtaa 240

cagttgtcct ttgatctact gcccttcatt aggacttcac tcttctcatt tgtcaccaag 300
cattctgact ttgtgaagtt tacattgaat ccttcacac acagctgact gatgctgac 360
aagtttgcag tcagtccta caacagcagt actttgtcca actatgaaat catcatggac 420
tatgctttc 429

<210> 3665
<211> 372
<212> DNA
<213> Glycine max

<400> 3665

tgaaatgaac aacgagctct cgagaatcat tggttatattt tgtcacacgg aagtcgatt 60
caggcgcata atataccgag acgctcaaaa ttgaacaacg gaagctctcg agaaattcaa 120
atggtcataa tttgtcacac ggaagtccga ttcaggcgca taatatatcg agacgctcga 180
aattgaacaa cggaggctct cgagaaattc aaatggatcat aacttttgaa acggaagttc 240
aattcaggcg cataatatgt cgagaagcat gaaattgaac aacagaagct ctcgagaaat 300
tcaaatggtc ataacttgtc acacgaaagt tcgattcaca cgcataatat actgagacgc 360
tcgaaattga ac 372

<210> 3666
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3666

tccaataacc aaggtagtgg agagaatgaa gaattcaatt atattgagaa acagaaagag 60
gaagcatcta atgctgcgcg tcggaggcca acgcgagaaa cttgaaatgg ttgaatcttt 120
attttaaagt ggcgccctgt ttagtatcat catcaccaca gataaatttt gggcttagtt 180
tcattatagg tgcactctgt tttcagtatt ttcttttttc ttccttttaa gaaaaggaaa 240
agattatttg cttcaagggg gtagatcttc tctgttttt ggagactcga gtgtttgagc 300
tagttgaagt tgtacaatta tttttctatt aatggattct gtttttaacg cagattaatg 360
cctagctacc tttncataat taatcgaaaa tccctattct aatacctact ataatgcaat 420
agaataatga ntaattttcg ccatttttat tactgcg 457

<210> 3667
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3667

agctntatat ataaattaaa aaattattaa ttatccacaa gtttagaaca atataattac 60
 atttgtgtaa tttatctttt tcttatataa ttgatattat ctcttctttt actttataga 120
 gatgtcaaaa aacttaataa attaaaagtg gacaactaat aataattagt gtctttctca 180
 attgaggagg ggtcaaaata ctctntccaa taactatcta tgtatcaatc tcagtgtgtg 240
 ttaattttat taatcaaadc gctgaattaa aagtttttat taaataaatg aggtttataa 300
 ttactccgtt aaataattaa atttaagtga taatgtattt cttaaaaaag ataagttaaa 360
 gttgattata gaactacata aatacaaatg ttgaatttat ttaaattgga atgtatacga 420
 ttgttgag 428

<210> 3668
 <211> 238
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3668

tgaggattta aacgacaata acttntactc ggatgtttga ttaagncccg caatatatcg 60
 agacgtcta aattgaatgt tgaagctctg accaaattca cacgacgata aatttttact 120
 cggatgtctg attgagtcct gtaatatatc gagactctcg aaattcaatg ttgaagatct 180
 aagcaaattc aaacgacaat aactttttac tccgatgtnt cattgagtcc cgtaatat 238

<210> 3669
 <211> 247
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3669

agcttcaaca ttcaatttcg agggctctga tatattacgg gactcaatcg gacatccgag 60

1573

taaaaatgta ttgtcgcttg aatctgctca tagcttccgt attcaatntc aagcgtctcg	120
atatattaca ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaatttgctc	180
agagcatcaa gattctatth ggagcgtggc gatataattat gggactcaat tcgacattcg	240
agaaaaa	247

agcttgata	gcaaagcagc	ttcagaagag	tttatcttgt	ctcccttcat	aatgagttcc	60
acaggggtga	taatttcac	agtaccctta	ttaatcttgg	tagggatgtc	aagcacctga	120
aattaaatat	gaacaccata	tatattatca	acgggtaatt	ccaattaagt	tcttaattcg	180
ttccatgaac	aagaatgcag	aaattaacct	gaaagataga	gagctgagag	ggatccagct	240
ctgtgttgcc	tgtgggaaca	acaacatcaa	taggtgcaac	taaacctaca	cgagcatgag	300
ctgtcaccta	taacaacatt	tataagtgag	tatgttaact	ggcataaagg	gtg	353

taatattcaa	atgaatcaaa	ttgaaaaaat	tcacacacat	tacattttatt	tatagcctaa	60
gtgtcacaca	catgaatttc	tattcaaatt	tcacttgaat	ttgaaattga	atttgtggag	120
ccaaaattca	ctaatacatga	ttagtcaatt	ttggctatgg	ttcagcccac	taatccaaga	180
tcaagtccaa	gattcttcac	taagtgtgct	tacgtgtcat	gaggcatgta	aagcatgaag	240
gacgtgcaca	aagtgtgact	atatgatgtg	gcaatggggg	gtagcaaaca	aattctcacc	300
tccccctcta	aaatataatt	ggattggggc	tctcccaatt	aattaaactt	atttctcaac	360
acacacatca	catattcact	tagtgcacgt	gaaattac			398

<213> Glycine max

<223> unsure at all n locations

<400> 3672

agcttgtcaa gcagtgtggc ttgatacttt tatacatgaa ctgaagatca aagaagaagg 60
tccagctgag ctatatgtag ataacaaata tgccatcaag ttagccaaac atccaattgc 120
acatggaaga tcaaagcaca ttgaaaccaa atttcatttc ataagagacc aagttgcgaa 180
cgggaaattc aagttgaagt tctgcagatc aaaagatcag ctggccgata tatttaccaa 240
gtccttgaaa tctgaaacct tcaaaaaaca gagaagcatg ctgaatattg ttgatagcac 300
gaaactagct taaggagggtg tgttaaaatt taagaataaa taagctaggt attgaatgat 360
atagatattg ccacgtgtaa taagtactct cctatatgct gaaccataatn gagtattaac 420
tatgt 425

<210> 3673

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3673

cttggacgct tactctggat acaaccagat catgatgctt tctctatacg angagaaaat 60
gacatgtatc acttgagatg tcgacttttg ctacagggtc atngcctttc acctaaaaaa 120
acgtangggc acctatcata ctagtgaat gatgggatcg agtcttttga cccacaaatc 180
gacgaaacat cgagctatat gtggaagaca tggttgtcaa gtctcaaagc atagcctagc 240
atatggcgga cttggaagaa atctttgggg aactccacac atatgacata cgcctcaacc 300
ttgaaaaatt tactttcgag gtaggaggag ggaagttcct tggcttcacg atcaactcat 360
tggggatnga tgccaacccc cacaatgca ctaccatact atatatgcat aaccctacaa 420
atgtccaaga agttcataag ttgaatgata agctagca 458

<210> 3674

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3674

ccttaatttta aaaatatctc tgactattat gcatatatat catacacatg caagaattaa 60
 gtgtaagtaa attagaattt gatggtcacg cactgacagc gtaaaataat tctgtactct 120
 caaccaatga taaatcatta ttgacatgac ttttttagata ggtattataa aaatcaacag 180
 acttacaata natcgtagtt agtgattgaa taacaatgta aaactatttt acaagtttag 240
 tgcacacacct attttctcaa taaattaaat tgtatgttta aaaattaaaa gtatttgtgt 300
 gaagttataa tagaaagtta gcgcaatcct gtatattaat agcccttgta ataacttgat 360
 gcattatatt aataattacc ccctctatcc catcatcatt gtaagaaaaa aatctgtcca 420
 ccatgattaa t 431

<210> 3675
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3675

taagcttgtc ggtgtacctg aagatgctat taggctcagc ctgtcttcat tctctttatc 60
 tanggaggcc aagagatggc tgcattcatt ctagggaac agtttaaaga ctagggataa 120
 ggttggtgag aagtttctaa aaaaatattt ccagagctct aaaactgccca agggaaaagc 180
 tgcaatttct tcattccatt agtttcccgga tgaatctttg agtgaggcat tagaaaaatt 240
 ccataccttg ctgcngaaaa ctcccactca tggtttttca gagcctatac agctgaacat 300
 cttcattgat gggttacgac cgctgtcaaa gcanttactc cacacttctg caggaggaaa 360
 aattaagttg aagacacctg aagaagccat tgacttaatt gaaaatatgg tttctagtga 420
 ccacacaatt ttgcatgaga gagttcata 449

<210> 3676
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3676

taatatgcat atggctgaaa cagtgaatat tcgtcaaagt tgcttaactt ggtatttcat 60
 gatctgggtg ggagactttt cacgttccta taaaatttcc atttctatta taaaatggta 120

acctcttctg cagcttgatg agtgggtgga gcagccaaca tcgacagntt gtgactgggt 180
aacagtggat gggcaaaatg taactgcctg gcataatcat gtgaaacaag ttcttgcatt 240
ttgtgacaag gagctattgt gattagaatt gtaaagcaca cggagtgagc aaacatttgt 300
gaagtctctt ggtcattttg tcattttaga tttt 334

<210> 3677
<211> 401
<212> DNA
<213> Glycine max

<400> 3677

tatgcttgtg gaccttgtgg cctcaataat cttattatgg ataggcttag aatgcagaat 60
aagcaacaac aatcaattta acaatgttct ttaaacaatgc aagacacaat tgattgctac 120
aaaataaata agataaggga agagaaaatg caaacacaat ttataactgg ttgggccagt 180
tcccggtgctt acgtgcagta ctcaagcaac ccacttgaga tttccactat ctttgtaaaa 240
tccattacaa agtttgaatc acacaggggac agcccatccc ttgtgttcag gaatccttta 300
caacaagaga ctcacagtct cttaaccaat ctcattgaat aagaagaatg gaagaagaat 360
tctctcttca agagaagaat attacaataa agatcatgta g 401

<210> 3678
<211> 345
<212> DNA
<213> Glycine max

<400> 3678

aagccgaatg gagaaggagg aaaggtgatt agagatgcca cttcaaggag aagatgagtc 60
aagaacaagt tcaccgccat atgaagatat ggatataaga gcttacagggt aggacaagat 120
gagtggaggg agaggggagag acagggcacg aaatttatgc ctcaaatgac gtatgaaatg 180
tgaagtgtaa tttctcaaat gatcaaagtt aaaaatatgc acacacaagg cctctattta 240
tagtttaagt gtcatacaaa agtggaggaa aatttgaatt tctattcaaa tttcacttga 300
atatgaatct gtggagccaa atgtggagcc aaaatttcac taatt 345

<210> 3679
<211> 435

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3679

agcttcacat tcacaaaaat ggtaatcgat tataacacaa ggtaatcaat taaaacaaca 60
 agttttttaa atagataaca cgtatcgacc aatggtaatc gattaaaaca taaagaattt 120
 aaaactggaa acatatcaca agcaatggta atcaattaaa acatggcgta attgattaaa 180
 acaaaaagtt ttgaaaaact taccaagcaa atatcatata gaaatcaaac ataaatcaat 240
 taaaacaaag agtaatcaat taaaacagaa agaaatcacg aatgactaa gaaaaacatg 300
 tgatcttcaa ccaaactaag tatgcacatg aatcactaag ctaaaacaca gcanataatg 360
 acaaatgata tgaatgacaa tgtgaaacac acttatgcaa ataagatgtc attctatgct 420
 agatgcatcc aatat 435

<210> 3680
 <211> 352
 <212> DNA
 <213> Glycine max
 <400> 3680

tgtaagctac atttacaacc atacattggc tttgttcacc atgaggaaat tcacacaaaa 60
 aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa ctgtgcaaag 120
 attgcataag caaaaggcca atcttagaag gatgtttact tcagatgaat ggttgaagtc 180
 taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta tgccatcatt 240
 ttggaatgat gttgtttatg ctttaaaggc tatagggcct cttgtaagtg tgttgaggct 300
 ggtggataat gaaaaaaaaac ctgcaatggg cttcatttat gaagcaatgg at 352

<210> 3681
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3681

actaagcttg atgcacatat ggagatgtta atgaaacaac gagatgatgc tctncatgag 60
 aggatggatc aatggagaa tagagatcat aatgaagaac aatggacgag aacagggaa 120

gatggtgttg ctagacaaaa ccgaattgat ggtattaaac tcaccattcc tccatttaaa 180
 ggaaagaatg atctggaggc ctactcggag tgggagatga aaatatagca tgatttctcc 240
 tgccacaact attaagacga ccacaatgtg aagcttgctg ccacggagtt ttccgactat 300
 gctattgtgt ggcgg 315

<210> 3682
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 3682

gatggagctt aacctagtca cacttattaa gaactagctc ttttcttctt ctattgcctc 60
 tagttgaata cacctttgtt gggatctcta tttggttcgt aaccctctca tgcaagttct 120
 ttacaaactc tgacgtagat tctccttctt tatgtataaa acaagtgtct actgggaggg 180
 gaatgaggtc taacggtgtt atgggattaa actcataaac aatctcaaaa ggcgactgct 240
 tgggtggttct atgaaccccc ctatt 265

<210> 3683
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3683

cctatgttgg ttatagctcg gagaacgcct caccttanga ccaaaagtgg tacaacaaac 60
 cactgagaaa gttaagttaa ttgaagaaag gatgagaact gctcacagta cgcagaaaag 120
 ttatcatgat aagaggagga aagatctgga attccaggtt ggtgatcatg tattcttgag 180
 agtcactccg tggacttggg ctggtccagc attgaaatcc cgaaaactaa caccgcgctc 240
 tattggtcct tttcaaattc ttaagacagt tcggcctctg gcataccaaa ttgcattacc 300
 cccgtctctt tctaattctc acaatgtctc tcatgtgtct caagtccgta agtatatccg 360
 cgatccatcc natgtgattg aattggatga tgtacaagtg 400

<210> 3684
 <211> 365
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3684

agcttgangg ttagtgacag tgattggact ggagatgaag atgatcggaa aagtactagt 60
ggatttgctg ctctcatggg ggaacacaac cttcacttgg atgtcaaaaa attagtcgat 120
agtcactctt tcaacttggt aggcagaata catagcaacg acttcataca tttgtcatgc 180
agtctggctt aggaatttgt taaaaaagtt gggcatgtca caagaatagc cgaccaagat 240
ctttgttgat agtaaatacag ccattgttct tgcaaagact ccagtgttcc atgatcgaag 300
catacatatt gatacatgtt accactacat aacggagtgc atagcangat aggatgtaca 360
tgcatt 365

<210> 3685

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3685

tgaatcggac atccgtgtga naagttatgc acattcgaat ttcactagag ctctcgtctgc 60
taatttcgag cgtcactata tgtgatgcgc cccaattgga cattngagtc aaatggttatg 120
accatttgaa tttctcaaga gcttccgctg tctaattctg agcgtctcgc tatgtgattt 180
cgctgaatcc gacatcngtg cgaaaagtta tgaccatctg aatttctcaa gagcttccca 240
tgttcaatnt ccaacctctc catctattat gcgcccgaat cggacatccg tgtgaaaagt 300
tatgaccatt t 311

<210> 3686

<211> 354

<212> DNA

<213> Glycine max

<400> 3686

agcttataat atatcgatac gctcgaaatt taacatcgga aactgtcgag aaattcaaat 60
ggccataact tttcacacgg atgtccgatt cgggcgcata atatgttgag aggctcgaaa 120
ttgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacat tgaggctctga 180

ttcaagatta tactatatcg atacgctcga aattaaacat cggaaactct cgagaaattc 240
 aaatgggtcat aactttttcac acggatgtcc gattcgagcg cataagatgt ctagaggctc 300
 gaaattgatc aacggaaaact ctcgagaaat tcaaattggtc ataaactttc acac 354

<210> 3687
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 3687

agcttgaagg ctaactggat gcgtcgggtca acttggtaac ccagctggcc ttgaatcaaa 60
 aatctgtgcc tatcgcaggg gtttgtgggt tgtgctcctc tgctgaccac catacagacc 120
 tttgcccttt catgcagcaa cctggagcaa ttgaccagcc tgaagcttat gctgcaaata 180
 tttacaatag acctccttaa cctcagcagc gaaatcaacc acagcatagc aattatgacc 240
 tttccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggtccagcc 300
 ctcagcacia caacagcagc ctgctttctc cttccaaaat gctgctggcc caaacagacc 360
 ataca 365

<210> 3688
 <211> 209
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3688

tgaganaggt tatgaccatt tgaatctctc gagagctctc cctgttcaat ttcgtgcagc 60
 tcgatatgtg atacaccaga atcggacatt cgagtgaata gttatgacca tatgaatgtc 120
 ttcatagctt tcgttgttca atctcgtgca tgttgatatg tgaagcagct gaatcggaca 180
 tccgagttaa aacttatgac cattttaat 209

<210> 3689
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3689

agcttgaagg tgcgtacccc accatttntc atagtaaaac actggtaatg tgtctactat 60
tattgtgata atctctttct ccatcattgg aggtgccact tgagctgcca ggtctctcca 120
cctttgggag tattctttga aagattcgtg cccctttctg cacatgttct gtggttgcat 180
cctatccgga gccatatcat aattgtactg atactgcca atgaaggcaa ccattaggtc 240
tttccaagaa tggactcggg aagggtccaa gttagtgtac caggtaacaa ctaccccagt 300
aagactttct tggaagaaat gtatcagcag tttctcatct tttgcatatg ccccatctt 360
ccgacaatac atcttttagat ggttcttggg gcaagtagtc cccttatact tgtcaaagtc 420
tagcacct 428

<210> 3690
<211> 424
<212> DNA
<213> Glycine max

<400> 3690

agcttgaagg agtttattgc atcagggaac aatttcactt taaaagtggg tcctaattgg 60
attcctaatt ttcaacttac ctatttggat gtgacatcat ggcagatagg tcccaacttt 120
ccatcgtgga ttcaatcaca aaacaaactt caatatattg gactgtctaa cacggggatt 180
ttagattcta tccccacttg gttctgggaa ccacactctc aggttttgca tttaaacttc 240
tctcataatc atatccatgg tgagcttgtg actacattac acaatccaat atctatccca 300
actgttgatc taagcacaaa tcacttatgt ggtaaattac cctatcctct caatgatgtg 360
tatgagttag aactttcaaa caattcattc tctgaatcca tgcaagaaat tttattgtac 420
aatc 424

<210> 3691
<211> 344
<212> DNA
<213> Glycine max

<400> 3691

agctttctta agaagattcc taaagatact agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctcttcaga tgagaagcta gaacttaact acacaccac tataatagct 120
aagctcacc ccatgacaaa aaaacatgaa aatacaaaaa aaaaaagtcc ttactacaaa 180

gactactcaa aatgccccga aatacaaggc taaaacccta tactactaga atggcctaaaa 240
 tacaaggccc aaacgaagga aaaacctatt ctaatattha caaagataag cgggctcata 300
 cttagcccat gggctcgaaa tctaccctaa ggctcatgag aacc 344

<210> 3692
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3692

tccatcatat aggccattcg cttgtttcat ggaaaaccac gaagaacact atagtctcac 60
 gttcctcttc ttacgctgaa tatcaagcac ttgcttcac aacttgtgaa ttacaatgtc 120
 tctcttatct tctaagagat ctatggatcc ccttttccaa gtctccgta ctttactgtg 180
 atatcatagc gctcttcaca ttgctaccaa tccagtcttt catgaacaca ccaaactt 240
 ggacattgat tgtcatctag tccgtgaaaa gtcccaagtt ggactcatgt tactactccc 300
 agttccttct tcaaatcaac ttgcgatata attcacaag gctcttctt ctcaatcctt 360
 cagcaccaat ctttccaagc tgcagttaca aaacattntt gcacctccag cttgtggcgg 420
 gctaatagag aagacatata atcctacctt aaataccaca t 461

<210> 3693
 <211> 416
 <212> DNA
 <213> Glycine max
 <400> 3693

agcttgggca agatgaccaa tgcaccatgg atagtggccc taagccagag gatatgtgca 60
 tgcccaccaa agtgtgcctc tttggcatgt aagagtaaag ttgtagacat gggcctggcc 120
 cggtagaatt gggcactggg ttatgtatgc tggcccatca gcccaacttg ttctcaattg 180
 tctaattcca tgcctgttca attttattta atttaaaagt gtgtaaataa ataaaaataa 240
 cttgtgaata aaagcactca gtgcctacat ttgacagatg aggaagatgt gagagggtat 300
 atgtgattta taacagttca aatcagtttc atatatagtt ggtaataact tgtagtccta 360
 catactcttt ttcgtgtaag gatttaatct tttataattg aattactgtg aaatat 416

<210> 3694
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3694

agcttgaggg gctgctatct ttgctgtttc cgtgagcaat ggggttcttg agtgaggggg 60
 gggcgtaatc tctcgaacta cgaagatggt gtccatcgac tttctagtct taatgaaagc 120
 agaatgagtt tccccataa tagtctaaag cactgccgct atgcgggttag ccagaatcat 180
 atatacaatc ttgcataaca aattacagca cgatatgggt ctaagatgga taacctgaga 240
 ggactgggtc tgcttaagaa gaagcgcaag aatatcatgg ttgagctgct ctagaagttt 300
 tccagcctct aagatatcat caccaatgag attcccaccc ttcttgagga ataaaacatt 360
 gaaaccatcc ggcccaggag ctttattatt atccatcaca gacataacgt tccaacc 418

<210> 3695
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 3695

agcttgtatg caacaacacc aatcttgtct tccattataa atgaaccata gtacttaggg 60
 gccaaactta cattggatat ggcttgcaact gaaacttgggt gataagcatg taattttaca 120
 taaaccaagt caccaatatg aaaactccta tcagatctgc ccttatctac aagttgcttc 180
 attctgtcct gggtcctttt catgtggaat ttaagtaact ttaacatttc atcacgtttc 240
 tgcaaaactcc tattaaccaa agcaatcttc aattcactta tgagataagg taaatcaaca 300
 agaggagctt ggccatacac aatctcatag ggacttgctt taatagtgtc gtggtaagtg 360
 gaattgtacc accattcagc atgaggcaac cacttggacc atgtgctgga gagtcactac 420
 acatgcacct g 431

<210> 3696
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3696

agctngaaag gaaaagcatg agtggaagtc gtcacttcat taggggtaac ttagtcactt 60
 ggatatgcaa aaagcaatgc cctattgcat tatccactac tgaagtagaa tatatttcag 120
 ctactagtgt atgctctcaa ttattatgga tcaagaagca actagagagg actacaacat 180
 ccatgagagt aacattctta tctattttga taaaaaaaaa aaagctacta tcagtctttc 240
 taaaaatcct acattgcatt taagggaata catatagaaa ttaaataatta tgttataaga 300
 aaccatgttc aaaatcaact ttgctatata tttta 334

<210> 3697
 <211> 449
 <212> DNA
 <213> Glycine max
 <400> 3697

tgtcaaataa atcactgcat attgtgcagt ccctatcatc cttctgagga atgtacaaga 60
 gagtaggctt gcaaacaagg ttccaatttg gataaaagtg taaaactact tattaattag 120
 aattttatga atcattgttt ggaatattga agaaaaaaga caacctgaca accagctgcc 180
 ctgaaggaac taaaatcatg gcattcaaca agaactctgc atgctctctg catggatatc 240
 atcaataact tgaatagctg caagattgag aatctagtaa gtataaggag ctgttaacta 300
 acttgcatag ctggaagact aagctcctca cgtacatgcc atgctcgatc tttctcgaag 360
 gttgacaaac gctctggccc agaaagcaac cgatagaagt atctgaatag tagttccaaa 420
 taactatcaa ttactgcaaa tgggcataa 449

<210> 3698
 <211> 266
 <212> DNA
 <213> Glycine max
 <400> 3698

agcttcgatt catgcgcata atatatcgag gctctcgaaa gtgagcaacg gaagctctcg 60
 agaaatttaa atggatcatag cttttcactc agatgtccga ttcattgtga taatatatcg 120
 agacgctcaa aatctaacaa tggaagctct ggagcaattc aatgggctg aacttttcac 180
 tcggagatcc gattcatgcg cataatatat cgagacgctt caatattcaa caacggaagc 240
 tctcgagaaa ttcgaatggg cataac 266

<210> 3699
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3699

actaagcttc ttatgtctcc aaatggatca gaaaatgaat ctcatctttg gtattgccag 60
 ttcggtcact taggctacaa cggattgagg atactttntt ataagatggt aaatgggttg 120
 ccttcaatca agatttcgaa gaagatatgc ataacatggt taactggcca gcaacacaga 180
 gactttatgc ctaagaaaag tttatggaga gcatcaaaca agctaccact tgtgcatgca 240
 aacatatgca cgcctattaa accacaatca aacagcaaca agaggtagat cctaagttct 300
 attgatgatc tcattcgtaa aacttgaatt tatttcttac atgaaaaatc ataagttttt 360
 ctcatgttta gaaattctaa aactcgtggt gaanaggaga ctgatgcata ta 412

<210> 3700
 <211> 427
 <212> DNA
 <213> Glycine max

 <400> 3700

gatccttaag tcacctgcag ctgcagctta gattttatac gggccttcct ctcttgcagg 60
 gggttcacggt catcatgggc gttgtcgatc gtttctctaa ggctgcgcac ttcgctgctc 120
 tccccacaca ccattctgcc tataagggtg ccggtgttgt tctcgacacc gcttgcaagt 180
 tgcgcggtt tccccgtagc ctattttcag accgagatcc catttttata agccatttct 240
 ggcgtgacct attcaaactt agtggcacca agctcagaat gagcaccgca taccaccgcg 300
 aaaccgacgg gcagacagag gtgctcaatc agacgctcga acagtactta cgcgccttcg 360
 tccatcacca accttcacgg tggtttcgat tcttatccct ggccgaatgg tcttataaca 420
 ccaccat 427

<210> 3701
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 3701

ctcactttca ttttntnggt ctttggttat tgcttgctc tctgtttcct tgcttgtag 60
ttgccatata ngaaattgga aaggaggatt ggtgccatat cttgaagaat ttgagtcaag 120
aagcaagggg ccaaccacct taagagatat tggactaaga agcactccaa attgagtga 180
acactaaaga gagaatagcc accacaattg aggacttttt tctttgtaat tntgtaattg 240
gcaatttgct ttgctttcaa attttgtaac aaaaggcctt tcattggaag taagttggga 300
gcctccgcta cgtcaccta cttccatttg tgtgtaataa ttctaggcaa ttctccctta 360
ggatagttag tgttttgttg ggaaccttaa atgaggatcat ccaaactc ct 412

<210> 3702

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3702

agcttctaaa ctnatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaagggggg ttgaattaag atattccaaa ctacttcccc aattaaaaat 120
ctatttcact ttttattcaa gttataaatt cccttaataa tgaacttctt agatgttgat 180
tcaaataaaa caatttgaat atgaatataa agcaataata aacaaaggag attaaggga 240
gagaaagtgc aaactcacat ttatactggt tcggccacac ccttgtgcct acgtncaatc 300
cccaagcaac ccgcttgaga gttccactat cttgtaaatt ccttttaciaa gttctaaaca 360
cac 363

<210> 3703

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3703

ntactatgaa gagaatatcc aaggaanata ccttcatctg acttatcatc aaattctnct 60
aagttatctt ttccattatt gaatacaaaa catttaciaa caaagatatg aagatgtgag 120
atgtttggtt ttctgcgagt gaacaattaa tatggagttc tctttaaaat gggcttatt 180

aaagccctat ttaaaatgta gcatgcagtg ttaaccgctt cagcccaaaa gtatttttggga 240
agaggagtat catttaataa agttctagca atctcttcca atgatctatc tttcctttca 300
acaacaccat tttgttgagg ggctcttggt gcagaaaagt tatgcttaat cccatgctta 360
tcacacaata attcacattc tctattttca aactcacccc catgatcact cctaatagat 420
ataatcttga gaatnttctt attttgaatg attnttgcaa gtttctaa 468

<210> 3704
<211> 380
<212> DNA
<213> Glycine max

<400> 3704

agcttgtccg tcattgtttc taatttgaag tactgggttt gctacattta gtgggggtttt 60
gagtggtgaa tttgacattg aatgtctggt gaaacaggat ccttttagcc cgtaacagaa 120
cagtgaaagt tgcagtttgg atttgtactt tcaactaata aatgtcgagg ggatctgatg 180
gatcacaaaa aaagcgttta gttgctgcca tctgtgttgt ggcaattttt cttggctttc 240
tgtatgtgta tggcggatcc atctttgggt ctccagaatag tggttcatct gctcttgaat 300
atggcagatc attgaaaaga cttggctcgt catatttggg tgcagaggat gacactgatg 360
gcaagcaaga tgaatcttca 380

<210> 3705
<211> 420
<212> DNA
<213> Glycine max

<400> 3705

agcttcagat ctaaattgtg cgcgtctaga tatattacgg gactcgttca gacatctgag 60
taaaaagtta ttgtcgctag aatttgatac gagcttccat tttcaatttg gagcgtctct 120
cgataaattg caacactctg tcgggcatcc gagaaaaaag ttatcgtcgt ttgatatttt 180
aaagagtttc cattttcaat ttgaagcttc tcgatatatt acgggactca accagacatc 240
cgtgtataaa gttattgtca tttcaatttg ctgagagctt ctagtctcaa ttttgagcgt 300
ctcaatatat taccgatac aatcggacat gcgagaaaaa agttattgtc gtttgaattt 360
cctacgagct tccgttttca atttggagtg tctcgatata ttacgggact caactggaca 420

<210> 3706
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 3706

caatttgagc gtcttgatat attatgtccc cgtatcggac atccgtttga aaacttatga 60
 ccattcgaat ttctcgagag cttccgctgc tcaataactga gcgtctagat gagttatgtc 120
 cccggatctg acattcgtgc gaaaagttac gaccattcga atttctcgag agctttcgcct 180
 gctcaatttc cagcgtcttg atatattatg tctccaatc gtacattctt ctcaaaagtt 240
 atgaccattc taatttctcg agagcttctg ttgttcaatt tccagcgtct tgatctatta 300
 tgt 303

<210> 3707
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3707

agcttaaaca ttcaatttgc agagtctcgt tatattacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtatg aattggctta aagcataaac attcaacttt gagcctctcg 120
 atatattacg ggactcaatc agacatccga gtaaaaaatt attgtcgttt gaatttgctc 180
 agaggttcaa aattcaattt cgagcgtctc gatataattnc gggactcaat cagacatccg 240
 agtataaaaag tattggtctt tg 262

<210> 3708
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 3708

tcgattacac acatactata gtcgattacc aaaggagtct tttagaatac attctcaaca 60
 gtcacatctt tttatttcgc ttttaaattg ccatcacagg cttgcctata tgtgacttga 120
 gacaccaatt ttgatcagag ttctgaagaa caaaaaggctc ttatcctctt aacaagcaaa 180
 actgttttat cctcttaaaa attccttggc caaaacactt gtgattcaat aacgaattat 240

ttgagtgtct aaattgttca atctatctct ttcaagagag attttttctt ctcttcttta 300
 ttctgaaaag ggattaagag accgacggtc tcttgctgga aagaatctaa acacaaagga 360
 acgattgtcc ttgtgtgttt ataacttgta aaacgaatgt acaaga 406

<210> 3709
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3709

agctttttaa atacactctc ttcccttcaa aatctctca tattatctct ctctctctaa 60
 aatcacaaat tacaaaaatcc ccttccattc tctctctaaa accatcatgt cctccactgc 120
 gcctctgtc ctccccatct ccaacccccca aaccactgca agaaccacca gtgcaggcgg 180
 cggcgccatc aagggtccgg cgaacaacct gaccttctgt gccttcatca acaacctttc 240
 cacctccctc caccacggcc tcgaccaatg tcgcccctgg tcggagctcg cagaccgctc 300
 cacgttctcg aaacccgagt cctccaaagc cacccttctg gtccgcaaaa acttctccta 360
 ctttcacacc aactactanc gtgtcgttca ctcatcctcg cagtctcttc tctactgnga 420
 atgtatg 427

<210> 3710
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 3710

gcttatgcc aaggagatg gaccttctct agtctcggag aggatcaata acatgcctat 60
 aggtttaacc tcctataaga gtatggagtc agcaacacca cttttaacat ttctaattta 120
 atttcttttg caggtggagc tgatattgag gaggatgaac caatagattt gaggtaaaat 180
 cgtcttcaag ggggagggga tgatacaata ctccctagga aggaactatt caccaaagcc 240
 atgagcaaga gactccaaga ggattgggct agagttgctg aagaaggccc tatgattctc 300
 atgaacccca gggtagaatt ttgagccaat gggccaaggt tgggtccact tatatttgta 360
 catattagat ttggatttca ttatttttgg gc 392

<210> 3711
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 3711

agctctccct tttcataaaa gaaaaacgta tctgaggtga ataaatatga aaaacatatt 60
 cttatatcga tttattacgc tacaaaaaga ttatttacta acattaaagg tttgtctttt 120
 ggtaaattta cattgacata gacttttact agtggaaatt aaaattaaat tgttagtata 180
 actattgtta gtagtctttt aagagaaata ttgttagtaa gtctacatta atattaagtg 240
 tccttataaa catatatttt actctcttac atacaactat ctattttttt ctacctctct 300
 atatatttct atatattaca tactatatct attattcttt tctc 344

<210> 3712
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3712

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 gatggggaat gcctctaaca gcacctttgt caatgatttt cttcatgcct ctttaagtga 120
 gatgtccaaa tctttgatgc catatattga cttcatcttc tttggagact agacatgtgg 180
 aggagtaact gggtttcttga ggtgtccata ngtaacagtt gtcctttgat ctgctgcctt 240
 tcattaggac ttcactcttc tcatttgtca ccaagcattc tgactttgtg aagtttacat 300
 tgagtccttc atcacacaac tgactgatgc tgatcaagtt cgcagtcagt cccttcacca 360
 gcagtacttt gttcagacta ggaagtcctt catggactag ctttcccatt ccagtgatcc 420
 tttcttt 427

<210> 3713
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3713

agctatgcc taaacagcgt tcacaaaagt caagtttctc caccttatct tcatttagca 60

cgttctatatt tcccagttca atcaaccccc tctcactcac atgtcctaac cttctgtgcc 120
 atagttcagt ctttgacaac cttttgacag aaactgcaac agctgatcca atcatcactt 180
 ctccaatcag agaatacaag ccattctttt gcatcccttt catgaatatt atggagcact 240
 ttagaacctt tagaactcca ttctcctctt tgaacacata gccttgtttg tcaaactcac 300
 tcagagaaat caaatttctc ttcaaactctg ggataagcct tacattcttg atgactctct 360
 tagcaccatc atgaagcttg aaccttacag acccaattct agtgatctta caagactt 418

<210> 3714
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 3714

ctgccgcaag agtctagtgg atatgctctt ctgctgacca ccatacagac tgttgccctt 60
 ccatgcaaca acctggagca attgagtagc ctgaagctta tgctgcaaac atttacaata 120
 gacctctca acctcagcag cataatcaat cacagctgaa caattatgac ctctccagct 180
 acagatacaa tccttgatg gaggaatcac cctaattctca gatgggtctaa ccctcaacaa 240
 caacaacagc agcctgctcc ttcttcaga atgatgctgg cccaagcaga ccataccatc 300
 ctccaccaat tcaacaactg caacag 326

<210> 3715
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3715

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 tttgtcccca aggcttcatg tagacttgtc caaaatcgcg aagtgaacct tggatccctg 120
 tcagatacaa tactagaagg aattccatgc aaccttacta cttccttgat atacaactcc 180
 actagctntt ccattctata cctcatattc actgcgataa aatgagcaga attgggtgagt 240
 cgatctacta tgaccacac ggcatcatgc ncacgactag tctngggtaa actagataca 300
 aaatccatag atatgctctc ccatttccat tccggaatct ccaat 345

<210> 3716
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 3716

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 ttgaataatc caagtaacta agcaagtgtg tcgtaatctc cagaaccagt tcttccatca 120
 tggacgatcc cattcatcaa caccaccagc cctggagtgg gactgggccc aagcatttta 180
 gtgcggccgc cgttgaggta gggcacgacg gcggcaccag aattggaggt gcaatcgag 240
 tgggtgaaggg agaaaaagga tcttatgaaa gagaaaagtg tgaaaaggaa acaaagctta 300
 tggtttcgag agagagaaaag aggggtactga gaagtgaagt tgcgagggtc ttatgtaaaa 360
 acctgaacat cggtttgttg tttgagcttt cacaacatcg atttttaaaa aaccaatgtt 420
 aaaatcattt tgtaaacat 439

<210> 3717
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 3717

catcatcaat agtctcagac gggacaggct ctttcttatt agctgatttt gactgagtta 60
 ttaaagatgg aacgtaccaa acttaaattt agtttggctt accaccctaa agctgatggc 120
 caaactcagg gtggcaatag atgcatagac atttatttgc aatgtttaaa agttcacagc 180
 gtaagcaatg gccaaactgtc tcagggtgggc tgagtattgg tataacacca ataactcatg 240
 caccactgca tgtacctggc ttcttttttac cttaatttat aatacagacg attcattctt 300
 t 301

<210> 3718
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 3718

agcttgcttc tcaacactac aaagctattc acctttaatc cttttgttaa aatatctgcc 60

agctgcattt cagtgcctgca atacctcaaa tccagctgct tcttgctcac cttttccctc 120
 agaaaatgaa atctagtctc aatatgtttt gatcttccat gtgctactgg attcatggcc 180
 aaactgatag tagatttggt gtctacatac aatctaactg gcctctgaat ttccaccttc 240
 aattcttcaa gcaaggagtc caaccacaag gcttgacatg cagcatagca agctgctatg 300
 tactctgcct cacatgagga taaagccacc acttgctggt tcttggaaca ccagcttatt 360
 gatgtacca gaaacttgaa aagatagcct gtagcgcttt tcctttccac cttgtctccg 420
 caccaatcag aatctg 436

<210> 3719
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 3719
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 atcagctgat tttggactga gttattcaag atggaaggta ccaaactcaa atttagtttg 120
 gcttaccacc ctcaagctga tggccaaact aagggtgtca atagatgcat agagatgtat 180
 ttgcaatggt taacaagttc aaagcgtaag caatggccaa ctgtctcagt tgggctgagt 240
 attggtataa caccaataat catggcacca ctgcatgtac ctggcttctt tttcccttaa 300
 tttataatac agacgattca ttcttttcca ttcttttttc cccctttcat tctatacggt 360
 cttgagtaat ttggttacag atctaacca gtctagaaag ggggtgggtcc taacatcctt 420
 ctatactatt taga 434

<210> 3720
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3720

tttccagacc atacttcttc gggcaactga taattcatat gaactgatgg tcctctattg 60
 atgagatatg ctactgtggt tattgtcttt gtcagaatg ctctatgcaa gccaaattgg 120
 atccgcatac accttactct ctcggttcaag gttctattca tcctttctgt aacaccgctt 180
 tgctcacgtg ttcttggtat tgacttgatc attctgatcc catgttcttg acagaagtct 240

ttaaactcct gactatcata ctccccgcc a ttgtcagatt tcagactntt aacctttaga 300
 cctgtctgat tntcaacttc tgggtntcac cttgtaaaca cagaagacac atcagaatta 360
 ttgttaagac acataacaca tacctctctg gtagagtcac tgataaaggt gacataatag 420
 tgtgagtttc caacagattt cactgggggtt gggaccaaac atctgtgtgc acc 473

<210> 3721
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3721

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 tcttcttggg agcaatagga gttatctttt gtgcctcgtc tttgttgtcc ggtattataa 120
 ttgctgcttt tcttccagta gcggaagggt tggctgttat tgtatacaaa gagagttttc 180
 atgcacagaa aggggttgct ttggtgctct ctctttgggg gtttgtatcc taattctatg 240
 gagagataaa acaagacaag aaaaagaaca agagtcggtg tcaagaaaca gagctgcctc 300
 aaagtcttcc tcccaatgca tgattgcaag taaagtttat ttcactatct tggcttgtgt 360
 tgaattgtca atattgaagg ctagctttgg cccagatag aggaaaacca cataaaggca 420
 aagtcatttc tcaccct 437

<210> 3722
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3722

agcttgaat cgattacaca catactgtaa tcgattacca gaggagattn tcagatcata 60
 ttcttagcag tcacatcttt tcatnnggtt cttgaatggc catcaaaggc ctatatatat 120
 gtgacttgag acacgaatnt gctaagagtt ttcagaacaa aatggctcta tcctcttaaa 180
 aggcaaaatc gttttatcct cttacaaatt ccttggccaa aacacttggt attcaataag 240
 gaattatttg agtgctcaaa ttgttcaatc tatctcttcc aagagagatt tcttcttctc 300
 ttcttcttta ttctgaaaag ggattaagag accgagggtc tcttgttgta aagaaatctg 360

aacacaaagg aagggttgct cttgtgtgat tcagatcttg taataggctt ttacaagata 420
gtggaactct caagcag 437

<210> 3723
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3723

agcnttgatg caacatttgg agaggttaat gaaactacga gatgaaaata gaacatgttt 60
tctcatgcaa cgactatgag gaggaccaa aggtgaagct tgctgccacg gagtttttcg 120
actatgctct tgtgtggtgg aacaagctac aaaaggagag agcaagaaat gaagagccaa 180
tggttgatac atggacagag atgaaaaaga tcatgatgaa gcggtatgtg ccggctagtt 240
actcaaggga cttgaaattc aagctccaaa aactaaccba aggcaacaag ggggttgagg 300
agtattttta ggaaatggat gtgctcatga ttcaagcaaa gattgaagaa gatgaggagg 360
taactatggc tcgatttctt aatcggttga ctaatgatat ccgcgatatt gctgagctg 419

<210> 3724
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3724

ctgtaagacc tgcaacttct ctattgatca tgctggttag gaaaggaagt tgcaactaag 60
tgagctagat gagatatgtt tagaagccta tgagaattcc aaattctaca aggagaagac 120
caagaagtgc catgacagct tgatagctaa gaaggacttc atggctggac agaaattatt 180
attgtataac tctacgctcg gactcatgac tggttaagtc aggtcaaagt ggatttgtcc 240
ttttgcggtg actaaagttt ttccttatgg tacaattgag atcaanagt aatccacata 300
taagagcttc aaggtcaatg gacaccggct gaaaccattc ctcacacatc cctccttggt 360
ggatgtagt 369

<210> 3725
<211> 438

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3725

agcttccaca ctagtatacct ttaattntag ggtatatattt tttatacgtg tatatgaaga 60
 aaaatgaaag atatcaataa ttgtatgcta tatcataccg ttttaattttt ttttatgtac 120
 aaatgattaa aaaatgattt ttttagaata ggttttgaaa agatatttga ttcgatatcg 180
 ttagtttgtt atgttattga ttttaaattt aatttaaattc tttattatct ttggaattag 240
 ggggtgcacca aaaagaaaaa attaaagaag aatacaaaaa acaatctttt taaagaagat 300
 aattaggggt gtattagatt aagatttcaa aagatttttt taaaaaata ttgtggtatt 360
 caattaaaaa ttgtaaataa tataaataag ttgtatgata ttttaattaaa gtttttaaga 420
 ttttgtatag aagacaac 438

<210> 3726
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3726

agcttgacca agtatatgct atttagntga actgatcaat ttttttaaca ataactgcac 60
 acagtttttag gtttgtgact tttctgtttc atganagtag acatacaaaa gggcataatg 120
 atattttttt tggagtctta tttacctgtt tcttgtctgg ccaaagtttc atttacaatg 180
 aagagaacag tattcttttc aatagttctt caacagaaga tttcagcagc aatgataatt 240
 ccaaattctt ttacaggttg gttctcagag cacaacaatg aagatgactc gtgttcctat 300
 tcatggagga ctatcttgga aagcgtttaa tgaagaaaca accactactg atgatagttc 360
 gttcactgtg actggcttgt tggagcagat aaatgcaacc agagatttat ctgattactt 420

<210> 3727
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3727

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gcatacttc ttgcactgaa ttgttgggag ttggaagcca tcttcttaat cagattccta 120
gcctcaacat gagtcatatc accaagagct ccaccattgg cagcatcaat catactctc 180
tccatgttgc taagtccctc atagaaatat ngtaggagga gttgctcaga aatctggtgg 240
taaggacaac ttgcacacaa tttcttgaat ctttcccagt actcatacaa gctctctcca 300
ctaagttgcc tgatgcctga aatgtctttt ctgatggcag tggtcctaga tgtacggaag 360
aatttctcca agaacactct cttaatgtca tcccagctgg taatggacct aggagcaatg 420
tagtacaacc aat 433

<210> 3728
<211> 440
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3728

agcttaagac aactctntat ggacttaaac aagctccaag acaagggtat gagagactta 60
ccaacttctt tcttgaacaa aagtttaagg aaaagttgat aaaacacttt tcattaaaaa 120
gtcctctcat aacattttac ttgtgctagt ttatgtggat gacatcattt ttggttctac 180
taacaaatct ctgtgaagat tttgtgcaca agatgcaagg ngagtttgaa atgtcaatga 240
taggggagtt aaattacttt gttggtttcc aagtgaagaa aatggaccat ggaacatttc 300
ttcgtcaaac aaactgcaag aaactttctca aaaagtttga gatggataaa agcaaggatt 360
ctgcaactcc tatggctact aattactacc ttagtgcaga tgaaaagga aagacaattg 420
atcttagttc cttactttac 440

<210> 3729
<211> 474
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3729

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cgctgaagtt gttggaagag acataaaaaat gactaaactg ngaaatccat gcttggctct 120

taaactggca atgggaccgt acaactttgt ggctcgcaa accaatactt tcagttcttg 180
tagagtttga agccaatggg gaaagacatc ctttattnga ttggttccaa gatctaatac 240
cttcagacta gtgcaattgg acaaagattc tggcaaaaaa ctttctaatt ggttgccatt 300
gagatccaga gtactgagcc gacagntatt tgcanaggta cttggcanag tgccatgaag 360
ctcgatcagt ttagatcca aaacttcaag ggatgatgag ttagcacggc atcgtggaat 420
gattccagtc aacttggtgt gagacaagtt gagaacatta attgaacttg catt 474

<210> 3730
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3730

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cacagtggcc aaagaagcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
gaagatgtcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180
agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240
gggagagaga atgacagatg aaaagctggt gagaaagatc ctcaaactcct tgcctaagag 300
atttgacatg aaagtcaactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
tgaactcatt ggttcccttc aaacctttga gctaggactc tcggataggg ctgacaagaa 420
gagcaagaac 430

<210> 3731
<211> 427
<212> DNA
<213> Glycine max
<400> 3731

agcttttggga aggatcaaaa agtgctctta tgaatcctct cgtgcttatg ccaccagtac 60
ctggaaggcc tctcattttg tacatgacaa tcttgacga gtcaatgggg tgtatgctgg 120
ggcaacatga cgaatccggg aagaaagagc gcgctgttta ctacctaagt aagaagttca 180
cgacctgtga gatgaattac tccttgctcg aaagaacgtg ttgtgcttta gtatgggcat 240
cccatcgcct aaggcagtac atgctgagcc atactacctg gttgatatcc aaaatggacc 300

cggttaagta catctttgaa aagccagctc tcacgggacg aatcgcccgg tggcaagtcc 360
 tgctatccga gtttgatata gtctacgtca cccacaaggc gataaaagga agcgccttag 420
 cagatta 427

<210> 3732
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 3732

cgacatgggt tgcaggaaaag agcacttccct tggatgaacc ttctcttgct atctgggttt 60
 tcaccattga catttagtaa ctttacagaa tcccaggctg agtgtttggt gcagaggact 120
 cctagcaagg ggttccatgt tgagaagagg cagtcttccc ttgttctttg ctggcaaagg 180
 aaggatctca tctcagtttc aacttggaga tgctaagcag agccattctg cacctttgaa 240
 cgaccaatta attctatatt cgaagggtgct acataactta ccgcttctat tgatctttct 300
 tgcttgaatt tgccttggct atgggttctat gctaattgtc tgtgtttagg aattattatt 360
 ctcatgtaag gaagtgaaca tattaattag caatggcaac ttatgagccc tgatatgaag 420
 tgtattatta taaacatg 438

<210> 3733
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3733

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 ttcatgaagg atttgcttac aaacaataga ataattatgg atgatgaaac attggagcta 120
 gaggcaggtt gtagtgcaat tattcataaa tccattctat agaaatctcg agatcctagt 180
 agtttcacaa ttctgtgac tattagaaga ttattaatag gaaaggcagt tctttattta 240
 ggtgcaagta tcaacctaata gcccttgtcc atgatcaagc ggataggaga agtagacatt 300
 agaccaacaa ggatgacttt gcagtttgct aacagaacta tcaagcatcc ttatggcatt 360
 attgaagatg tattggtaaa agttgacaaa tttctctttc tagtcaactt tatgggtgatg 420

gatatgaaga c

431

<210> 3734
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3734

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gtgtccagca tcttgggatg ttcccagcct ttgatgacag ctttccaggt tctgctatcc 120
agtgatttga gaaaggccac catccttgct ttccagtatt catagttggt cccatcccag 180
aatggtgggc tgttcaactgg tccgccttct ttctccatgt tcatcagaat ntatctccct 240
agatctcact cagtgatttc gagtgcctgc tctgatacca attgaaattc tgatactgng 300
gacagatgtc gtacaggatg tcacgacatc acgcttcaga acatgcagat ngtctttgac 360
tgtatgaaca cgatanacaa gtaaataaca caagagaatt gtaaccaggt t 411

<210> 3735
<211> 441
<212> DNA
<213> Glycine max

<400> 3735

agcttgcctt ggcccttgat atatttgagg gactcatggt cactatgaat gactaattcc 60
ttgggataaa ggtagtgttg ccatgttttc aaagcccgtc ctaaggcata caactcctta 120
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaggagga 180
tggcctgttt gcctcagcgc agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
aaagattttt gaaagtttgg caacgcaagt ataggggcat tagttagctt ttgcttaaga 300
acattgaaag cttcttcttg tttctctccc catttgaaac cagcattttt cttgagcact 360
tcattgagag gtgctgcaa tgtgctaaca ctcttcacaa atcgtctata aaaacttgct 420
aagccatgaa aactcctcac c 441

<210> 3736
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3736

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ctggagttgc tgcacatgat gtccaacgtt atgtcaaaga ataagatcgg gctgcacaat 120
gcacaaggca agataaagtg tcaaatgaag aattgaagct gcaggattca cgatgtcggg 180
tacaatgtcc aggacatcct gcctgaaaat actggaattg ctaaaagcat tgaagctgca 240
agatccacga tgtcggatac aatgtccagg acatcctgcc cgaaaatact ggagttgcta 300
aaagcattga agttgcagga tccacgatgt ctgatacgat gtccaggaca tcttgcccga 360
acatactgga catataaatc tggtatatct ttaacagatt attgtgcagt tagcaagaga 420
ttagatgatc 430

<210> 3737
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3737

ttcgaggatt tcataaaaca gagcataacc aaaggtgtca tacaactagc acctatgcat 60
agtgagtgag attcagatgt tactcgagtg acttgaagtc ttaaactcta tctccgacgt 120
caaaccacac acaacctttt gataggtgta tactatacag cccgtgcgtt aaacgtgatg 180
cacgtctatt ccggtatagt gaacgtctta gaaatttgtg cccaacatct catatgaagc 240
ggnecccact tccacattca catangtgag tctatcaaga gtactcctgt agcctacgta 300
ttacactcaa cataaagtat agatctcatg aagaattaag aattgttctc ataactgata 360
ctcaggttac ttcaggaatc atgctacttt cacgtataac agcatgtgca tctcatatca 420
ct 422

<210> 3738
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3738

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 atagattacc ttctcaatct gtccagaatc ccaaaaatgt gagtgccatt acattgaggt 120
 caggaaagta gtgtcaagga ccttaacctg tagcatcttc atcatctgcc aatgaacctg 180
 cccaacctca ctctactcca gaaaaagatg atgacaaaaa tttaaagagt aagttaccta 240
 acaatntcta tgcaggtgaa tctaaagaga agcaacatat ccctcttcca ttccctccaa 300
 gagaaatttc caacanataa atggaagagg caaagaagga gatcttgga acatttagaa 360
 aagtagaggt aaacatacct ctgctggatg caatatagaa aattccaaga tatgctaaat 420
 tcttgaagga gttgtgccta ataagcgga 449

<210> 3739
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3739

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 gagtcttagg aagagtatat taaataggaa ggggaattcct aattgaagta gcaaaagggt 120
 tgaccaagaa atttaagtta aaaagtcttt ctcaagagat ttactctctg ataatcgatt 180
 accagtggcc aaaaatgatt tacaacaact attaaaattt gaattcaaaa tttgcactgt 240
 gtaatcgatt acacatatat ggtaatcgat taccagcagt tattgaacgt tctaattcaa 300
 attttaaagc ttgtaatcga ttacacacat actgtaatcg attaccagag gagattctca 360
 cgacatatcc ttaacagtca catcttttca ttcggttctt acatggctat cacaggccta 420
 tatatatgtg acttgagaca 440

<210> 3740
 <211> 435
 <212> DNA
 <213> Glycine max
 <400> 3740

agctttattc aagacaaagc aattaaagat attcatgatg gatgatcaag acagtctata 60
 tagtcttaga aagggtatat taaatacgaa ggggaatttca attgaagtag caaaagggtt 120
 ggccaacaaa attaagttaa aaagtctttt acaagaaatt tactctctgg taatcgggtg 180

taatcgatta ccagtggcca aaactgattt acaacagcta ttaaaattcg aattcaaaat 240
 ttgccctgtg taatcgatta cacatatatg gtaatcgatt accaacagtt tctgaacgtt 300
 ttaattcaaa ttttaaagct tgtaatcgat tacacatata ctgtaatcga ttaccagagc 360
 agattttcag aaaatattct caacagtcac atctttctat gtgggttcttg aatggctatc 420
 aaaggcctat atata 435

<210> 3741
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3741

gttategtca tgtgaatttc ctcagagctt ctgttttcaa tttcgagcgt ctcgatatat 60
 tacgggactc aatcaaacat ccgaataaaa aagttattgg cgtttgaata tgctcagagt 120
 ntctgctttc aatctcaagt gtcttgatat attatgggac tcaatcggac attcgaataa 180
 aaatctcttg tcacttgaat atgctcagag cttctattct taatctcgat tgtgtcgata 240
 tattacgaga cccaatcgaa catccaaatg aaaagttata gtcgtttgaa tttgctcaga 300
 agctttgttt tcaatttcga gtagctcgat atattatacg tatcaatcgg acatccaagt 360
 agaaaagtat tatgcgttga acttgcttag agcatatact tttcaatttc gagtgtctta 420
 gaatattaac ggactc 436

<210> 3742
 <211> 407
 <212> DNA
 <213> Glycine max
 <400> 3742

agcttgaagg caaactggat gcattgggta acatggtaac ccagctggcc ttgaatcaca 60
 aatctgtacc tgtcgcaagg gtttgtggtt tgagctcttc tgctgaccac catacagacc 120
 tttgcccttc catgcagcaa cctgtagcaa ttgagcagcc tgaagcttat gctgcaaata 180
 ttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240
 ttctcagcaa cagacacaac cctggatgga ggaatcacc taacctcaga tgttccagcc 300

ctcagcaaca acaacagcag actgctcctt ccttacaaaa tgctgttggc ccaagcagac 360
 catacattcc ttcaccaatc caacaacagc aacaacccca gaaacaa 407

<210> 3743
 <211> 432
 <212> DNA
 <213> Glycine max
 <400> 3743

agcttatgct gcaaacatct acaacagacc tcttcacctc cagctgcaaa atcagccaca 60
 acagaataat tataacctct ccagaaatag gtacaattcc gaatggagga atcatcccaa 120
 ccttagatgg tcgaatcctt cacaacaaca gcagcaacaa caacaacctt attttcaaaa 180
 tgatgctggc ccaagcagac catacgttcc tccaccaatc caacagcaac aacaacaaca 240
 gccccagaaa caacaaacag ttgaggcccc tccgcaacct ctccttgaag aacttgtgag 300
 gcaaatgact atgcaaaaaca tgcagtttca acaagagacc agagcctcca ttcagagctt 360
 aactaatcaa atgggacagt tggctacaca gttaaataca caatagtccc agaattctga 420
 tggattacct tc 432

<210> 3744
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3744

agcttggcta actctatggg agatggggct atggttatgg gtccagcacc gggtagcaag 60
 tcaatggaaa acttgatctc tctctcaggt ggtaaattgg atatatcctc aggaaactct 120
 ctgacaatag ggaggtcaca catggaaacc ttagtctcta cttctagggt agacaagatc 180
 atgtacactt gagaatcttc ttttaaagat gtcaacactt gggtggtaga gataaacatt 240
 tcacacctac tcattctaga atcatcaaac atgacagttt tatcaaaaaca gtttaacaag 300
 acatgggttg aagataacca gtccataccc aanataacat caatttggct cacaggcaaa 360
 gaaatcaaat caattaagaa tgttctacca aaaatttcac acgacaactc acacatacat 420
 taaaaagaat aagatgatnt catatctatc ttaagcccct actt 464

<210> 3745
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 3745

tccttaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60
 gctcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaagc 120
 tcacccccat gacaaaaaac atgaaaataa taaaaaaaaa gtccttatta caaagacaac 180
 tcaaaatgcc ccgaaatata aggctaaaac cctatactac tagaatggcc aaaatataag 240
 gcctagacga aggaaaaacc tattctaata ttacaaaga taagcgggct catacttagc 300
 ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggcctttc cttggatctc 360
 tagcccaatc tacttggagt cttctag 387

<210> 3746
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3746

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 tgagtatcat gttagttcca ccttccatgt ctctgattta tctctttatg atacagatgg 120
 agaatccgat ttgaggacaa atactttctca agatggagag aatgatgagg acatgaccaa 180
 cagcaatggc gaggatccac ttgaaggact tggaggacct atgacaaggg ctagagcaag 240
 gaaagccaag gaagctcttc aacaagtgct gtccatacta tttgaatata agcccaagtt 300
 tcaaggagaa aagtccaagg ttgtgagttg tatcatggcc cacatggagg actaaatgac 360
 accactttat ttcaatgtta gagtgtntag tttgtctaaa taat 404

<210> 3747
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3747

gctatncaaa tactcaaagtg gtcataactn atcatatctg ttgtccgatt gtggcgcgga 60

gtatatcgag acgctcgaaa ccacacaccg aatactctcg agaaattcaa atgggtcttaa 120
 cttttcfaat agaagtcoga ttcacacgca taatatatcg agaagcttga aattgaacaa 180
 cggaagctct ccagaaactc aaatgggtcat aaattgtcac accgaagtac tattcaagcg 240
 cataatacat cgagacgctg gaaattgaac aacgaatgct ctcgagaaat gcaaatgatc 300
 ataacttttc atacagaagt gcgattctgg cgcataatat atcgagaa 348

<210> 3748
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3748

ntgccacana cacacttctg ggtctgtttc ttctctgtn tttatcacia gattgccact 60
 gtccaaaagc actactacag gattctgtgc ttgtttgtga gagttgttgg tgtaccagac 120
 aagatacgca ttttgggtga gaacaagatt gcctgtgttg ttgagtgtta tgatacccgga 180
 ggaatcattg atgggggttg ccttattagc aaccaciaa actgtctgga ttgggatggt 240
 cttgtaccaa ataccacat aacgtttatg ggaataacct ggtgatgtgc catcattttc 300
 ttctattttc taaacccttt ttgcaccatt ntaatta 337

<210> 3749
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3749

agcttacatt ggtgtattga natctaacgc tgatgaacga catctattaa tcaaatatgc 60
 tgatgagttg cagcttctca caaacagtct ttggcagtc tgacttaga agcatgcacc 120
 tcaactctta cacaatgggt ctattcatac tttctgcaa accatactgc tgtggagtgt 180
 gacggactgt gttgcgcctt ttgatgcta ttttactgcg acactcattg aactgctctg 240
 acacacactc tatgccattg ccaggtctta caacttgaaa tgctgatacc aatgacagat 300
 gtcccaccgg atgtcacgac atcacgcttg agaacatgca gatgatgnt gatccgatga 360
 acagattaaa ca 372

<210> 3750
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3750

cttatagaac atatcataaa agaactatga ctattgaaga atctattcat gtttcctttg 60
 atgagtctaa tgctatttct ccaagaaagg atattttaga tgatgttgca gaatcttttag 120
 aacaaatgca tattcatgga caagattcta aaggaaaagg gaaaggaagc aatgaagatt 180
 ctccagaaga agccaaatca aatgatgaac tntcaaaata atggaaagct tcaaaagatc 240
 accctctaga caacattatt ggtgatatct gagaaggggt aacaactaga cattctctta 300
 aagatttatg caataatatg gctnttgtgt ctatcggatga acctaanaat ataaatgaag 360
 ccataataga tgatcattgg atagttgcta tgcaagaaga actaaatcag tttgaaagaa 420
 acaatgtgtg ggaactagta gagaaacttt gaaactaccc ca 462

<210> 3751
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 3751

catcagttgt tggatgaaat gatttctaga ggagttaaac cagactcttg gagttataat 60
 gcaatacaag cttaccattg tgatcattgt gaggtcaata aagccctgag gttaatgttt 120
 agaatggaaa aagatatctg tcttctgat cgccatacat ataacatggt gctcaaattg 180
 ctgattagga taggaagggt tgataaggta actgaagttt gggagaacat ggtggacaaa 240
 aagttttatc cttctgtctc aacatattct gtcatgatcc atggtttttg taagaagaag 300
 ggaaagctag aggaggcatg taagtatttt gaaatgatga ttgatgaacg aataccacca 360
 tatgttacta ctgttgagat gctgaggaat cggcttttgg gtttacggtt tatagatcac 420
 attgaaatac t 431

<210> 3752
 <211> 417
 <212> DNA

<213> Glycine max

<400> 3752

agctcgcgcc tactttgtta ctgagcaaca tgccatggct attcactcac aagtaattaa 60
aagagggttt caggaagata ctgttctttg taatgccttg atgcatgctt atgcgagggtg 120
tggtctcctta gctttgtcgg aacaagtatt caatgaaatg ggctgccatg atatggtttc 180
ttggaattca atgctcaagt cttatgccat acatgggtcaa gctaaagatg cactggagct 240
cttccacaaa tgaatgtctg tcttgattct gcaacctttg tcgcgcttct ctcagcttgc 300
agtcatgttg gacttggtga cgaacgagtg aaattgttta actctatgtc tgatgatcat 360
gggtgtctgtt ctcaactaga tcaactcttc tgcattggtg acctttatgg acgagct 417

<210> 3753

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3753

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gatggcagtg gtcctatatg caggaagaa tttctccaag aacactctct taaggctatc 120
ccagctgaaa atagatctgg gagcaaggta gtatagccaa tcttttgcca ctccttcag 180
agaatgagga aaagccttta gaaagatatg atcttcttgg acatcagagg gctctatggt 240
ggaacaaaca atatggaact ccttaagatg tttatgagga tcttcacctg caagaccatg 300
aaacttgggt agcaaatgta ttactccagt cttgagaaca tatggataaa taggacaaaa 360
taagacaata atacttaaaa aacaaaaaan actt 394

<210> 3754

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3754

agctctgtcc gcananatca ctcaacaaca ttctaattgc caatgcctta aacagtcttc 60
tttgctttta tcggttaaca tggaccgttc aaaaccataa aatcaacatg taactttacc 120

acttttgcaa gaactacgta ggtctgaatt cctcatcgca attgaggata cgtaggagca 180
aaagccccac ttttggtgac catcccaaga gatcggttaat ggtccaatgc cttaacgttt 240
ctctcctttc aaaaacaaga gatcggttaat ggtccaatgc cttaacgttt ctctcctttc 300
aaaatcaaaa gatcggttaa tgggtccaaac gccttagatg acctttgttc ggttaaaatt 360
gatcttgtgg aanaagatca caacaactta accaacgttt agttctgaaa gaactacata 420
ngtctgattt cctcatcg 439

<210> 3755
<211> 430
<212> DNA
<213> Glycine max

<400> 3755

agcttgtcca tccacgatgt ctccaataga aagggtccacc cctaaccatt tgctcacacg 60
aacatgaaat tggacatcac cataatcaaa tccatgtgtc ccacactcaa agataagctt 120
acaaaataat tataattaaa acaatttaag aaacatcaat taactatgac ataaactcta 180
tcatctttag atcatggtat ttgaaagtaa ataaaaccaa taacatccag ctacataag 240
ccaaacatct catattcaac tatcatgaaa caattcaaga atcaacatca tgcacaaact 300
atcaagcatt atcaacatga gttcatcaat catcatcaac atgaacacca aacatcaaca 360
ccaacgacag actctacttc atggatattt acaccacatg aagggaataa ccaagtacat 420
tccttaacat 430

<210> 3756
<211> 432
<212> DNA
<213> Glycine max

<400> 3756

cgtaatcgat tacacatata ctgtaattga ttaccagagc agattttcag aaaatattct 60
caacagtcac atctttttat gtgggtcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttgcta agagtttttc agaacaaaaa ggtcttattc tcttataaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300

ttcttcattc taaaaaggga ttaagagacc gaggtctct tgttgtgaaa gaattctaaa 360
 cacaaaggaa gggttgtcct tgttgtgtta gaacttgtaa aaggaattta caagatagtg 420
 gaactctcaa gc 432

<210> 3757
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3757

eggctatgac tatatacata cacccaatgc gagatatatg cctattatca ttacagatt 60
 gacgatgact tgttttanga ataaggatca tgaaggaagc attgctgcct ataggaaacc 120
 ttccatcaaa gtcgagttca tccacaatat ctctttgatt cacgtttcaa aacccttcaa 180
 caagccttaa taaaattgaa attaaatcca tcgggtgtcg ggcatttgcc tccaccacaa 240
 ttccaaacag cctctctaata ctcttggtca gaaatagagg aagtgatccc ctctgttnga 300
 ttcaactatc tcagatttat tagaggggtgc actataacga tcagcaccaa tctgtacttc 360
 tttctcgtct accagctcaa tate 384

<210> 3758
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3758

taacanaagg catgcgaagt ggggtggaatt cctagagcaa ttcccttatg tttatcaa 60
 ataaaaaggc aaaaggtaat atagtagccg atgctctttc tcggcgatcat gcattacttt 120
 ctatgcttga aacaaaattg gttggtcttg aatgtttgaa aagcatgtat gaaaatgatg 180
 aaacttttgg agaaattttt aaaaattgtg aaaatttttc agaaaatggg ttcttttagac 240
 atgaaggctt tcttttcaaa gaaaacaaat tgttgtgtgc taaatgttct actagaaatt 300
 tgcttggttg tgaagcacat gaaggagggt taatggggca ttttggggtc caaaagactc 360
 tagaaacatt acaagaacca ttttattggc ctcatatgaa aaaggatgtg cagaaatttt 420
 gtgaacattg cattgtatgt aaaa 444

<210> 3759
 <211> 386
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3759

agcttganat tgacaaacga acaccctcga gaaattctaa tggtcataac ttgtcacacg 60
 gaagttcgat taacgcgcag actatatcga gacgctcgaa attgagcaac gaatgctctc 120
 gagaaattca tatggccata acttgtcaca cggatgtccg attcaggcgc ataatatatc 180
 gagatactcg aaatctaaca acggatgctc tcgaaaaatt caaatgggtca taacttgtca 240
 cacggaagtc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgaatgc 300
 tatcgagaaa ttcaaattgga cataacttgt cacacgaaag tccgattaac gcgcataata 360
 tatcgagaaa tctatatgcg cataac 386

<210> 3760
 <211> 505
 <212> DNA
 <213> Glycine max

 <400> 3760

atctctgagt cacctgcggc atgcaagctt caacatcaga ccacttccag ggtgctggat 60
 ctacttcaca tggacttgat ggggcctatg caagttgaaa gccttggagg aaagaggtat 120
 gcctatgttg ttgtggatga tttctccaga ttacctggg tcaactttat cagagagaaa 180
 acagacacct ttgaagtatt caaagagttg agtctaagac ttcaaagaga aaaagactgt 240
 gtcacatga gaattacgag tgaccatggc agagagtttg aaaacagcaa gtttactgaa 300
 ttctgcacat ctgaaggcat cactcatgag ttctctgcag ccatcacacc tcaacaaaat 360
 ggcatagttg aaaggaaaaa tagaactttg caagaagctg ctagggtcat gtttcatgcc 420
 aaagaacttc cctataatct ctgggctgaa gccatgaaca cagcatgcta tatccacaac 480
 agagtcacac ttagaagggg gactc 505

<210> 3761
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 3761

tattaacttt gttgttttaga ggagaagata tctgaaatga gtatcaaaat actttataat 60
aaaaatatta aaaaatacta tatgaatgaa tcttaatcaa gtaattcaca tattatatca 120
tgtaaaacat taaaacatat agatattcac ttatatcaaa gcaatcaaac acaagtattg 180
aagaataatg attatagata ttattaaaat atttgaatga aaatttcacg ctaataagat 240
aaactcaatc aagaacacat actcaaaatt tcaaacaatc aaaacaaaca aatgaaaaat 300
tgttagttat cataatcaaa ttgattgaag aaatttttta ataagagaat agttttgata 360
ttacctttct catgattaag gtgtctaaat cttcaaagat gaggatctta ctttttctct 420
atgtttatca ttcttgagaa atgttctca 449

<210> 3762

<211> 233

<212> DNA

<213> Glycine max

<400> 3762

tgcttgtttg tgagagatgt tgggtgtacca cacaagatac gcattttggg tgagaacaag 60
attgcctgtg ttgttgagtg ttatgatacc cgaggaatca ttgatggggg tgggcttatt 120
agcaacccaa acaactgtct ggattgggat gttcttgtac caaatacca cataacgttt 180
atgggaataa cctgggtgatg tgccatcatt ttcttctatt atctaaaccc ttt 233

<210> 3763

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3763

ctgcagcttc ccatcgcacc acttccaggg tgctggatct actgcacatg gacttggttg 60
agcgtatgca agttgaaagc ctgggaggat agaggatgc ctatgttggt gcggatgatt 120
tctacagata tacctgtgtc tactttatga gagagagcgc atactccttt gaagcattca 180
aatagccgag tatattactt caatgagaaa aagactgccg aatacagaca atgcngcgtg 240
accaccgcaa acagtttagat gaccgcacgt tgagtgtatg ctgccatat gacagcctct 300

<210> 3764
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 3764

tgctgtgaaa attattagcc ttcgctccaa cctactcagt gggtatcttc ctgctgacat 60
 tggttctctt ccttctcttc agtatctcta cctccaacat aataaccttt ctgggtgatat 120
 acctgcctca ttgtctctcc aactcgttgt actcgatttg tcatataatt ccttcaccgg 180
 tgttattccg acgacatttc aaaatttgtc ggaattaact agtttgaatc tccagaacaa 240
 ctgctatcc ggacagatac ctaatctcaa tgtcaatctg ctcaagcttt tgaatttaag 300
 ctacaaccaa ttgaatggct caattcctaa agctcttcag atttttccaa attcttcctt 360
 tgaaggaaac tctctcttat gtggaccacc tctaaagcca tgctctgtgg tccccctac 420
 accttctcct tctctg 436

<210> 3765
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3765

agctnggcag caatatagct caatacatta catggtatag aaacccttat acctaaaaca 60
 ccaccagcaa cttactacac caaatccttg caattttttt cctatcttc ctaatagcag 120
 gggctcttta catgccacat aaacctccaa aacaaacgaa acctatcaat aaaaattaaa 180
 aaaaaaaaaa aagaacaaac tagcctccaa atccggagag gggtcttctt tgtctcttga 240
 gagcataaac cacatccatt gccgtgacgg tctttctctt aacgtgctca gtgtaggtaa 300
 cggcgtcacg aatcacgttc tacacaaaga tcttgagcac gccacgtgtc tcttagtaga 360
 tgagaccact gatacgcttc acaccacccc tgcgagccaa acgccgaatc 410

<210> 3766
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3766

agctctgagc caattcatat gacaataact ntntattgga tgtctgattg agtcctgtca 60
tatatcgaga cgctcgaaat tgaatgttga atctctgagc caatccaaac gacaataact 120
ttttactcgg atgtctgatt gagtcccgta atataacgag actctcaaaa ttgaatgttg 180
aagctctgag ctaattcaaa cgacaataac ttttaactcg gatgtctgat tgagtcctgt 240
catacatcga gacgctcgaa attgaatggt gaagctctga gccaatcaa acgacaataa 300
ctttttactc ggatgtctga ttgactctcg tcacatatcg agacgctcga aattgaatgt 360
tgaagctctg agccaattca cacgacaata actttttact cggatgtctg attgagtcct 420
gtcatatat 429

<210> 3767
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3767

nggagaggat gctntaatgg aggaaaagaa agagagaaga ggggagcacg aaattgaagg 60
aataaaagag ggagaaaagt gtaactttga agtgtgtttc atactactag aatgaccaa 120
atacaagacc taaaagaagg aaaaacctat tctaataattt acaaagaaga gtggatccaa 180
ccttgaccct tgggctaaaa aatctaccct aagggttcgtg agaaccctan ggccttcctt 240
tggtatctctg gcctaatacta cttggagtct tctatccaat gtccttgtgg gataggattg 300
catcagccac ccncttatgc atcatntttt aaggagacct ttcggatgtc tggttggntc 360
ttnttttttc tctcatatcc atggatgtca ttgatgatta agttcttata taactgggta 420
agtcaccnc cttatgcac attt 444

<210> 3768
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3768

acgcttgcaa gagtttctac atccagccct atctgatata aaacatctta tgccttgaat 60
 ttctaactcg acacgcaacc aattggcaaa tcttattaga ggaggtttac gaccatgtag 120
 tcctataaag acatcacaac tctttagtct ataagaagaa agtgatctac aacctggggt 180
 tgatgatgtt cttttgtttc tgccctctctt gcttctcttc tctttcagcc cagaataacc 240
 atcatcataa ggatggcaat aaccagacac agtgctacta gagatgccga ctgaggaaga 300
 tatgcatca aggttctgca aatcacctgc attacagcca gctggagatg cagccacctc 360
 agagaaggag catccaacat tcacaataga cntnggttct ggaatccctg aaatg 415

<210> 3769
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3769

agctnttaaa atatataata aaagaactat tattattgaa gaatcaattc atgttgctgt 60
 tgatgagact aactcagtct aagaaaggat atacttgatg acattacaga tactttagaa 120
 gatacacata ttcatgaaga agtccacaca aacaaagaag aatgaaatag caaagattct 180
 caatccaaag aaaatcaaata aaatgtggat cttccaaggg agtggagaac ttcaagggtg 240
 caccctcttg acaatatcat agttgacatc tcacaagggg taataactca acactctctt 300
 atagatgcat gcaataacat ggcttttgtc tctttaattg aacctaaaaa cataaataaa 360
 gccataattg atgaatatct ggatattact atgcacgaag aattaaatca atttgcaaga 420
 aatcaagtat gggaattacg tgatagactt aatgat 456

<210> 3770
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 3770

tatcctgatg aggggtgctcc atatgttctc aagactggac taatacattt gctgccaag 60
 tttcatggtc ttgcagggtga agatcctcat aagcatctta aggatttcca tattgtttct 120
 tccaccatga agccccctga tgtccaggaa gatcatatct ttctaaaggc tttttctcgt 180
 tctctgaagg gagtggcaaa agattgacta tactaccttg ctcccaggtc cattttcagc 240

tgggatgacc ttaagagggg gttcttggaa aaattcttcc cttcatctag gaccactgcc 300
 atcagaaaag acatttcatg catcaggcaa cttagtggag agagcttgta tgagtactgg 360
 taaagattca agaaatgggt gtgcagctgt cctcaccacc agatttctaa gcaactcctt 420
 ctgcagtatt tcaatga 437

<210> 3771
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3771

gggatcaact catattactt tntagtatth tactttgttc aaaaaattag acaagcgcta 60
 aatattgaaa tgtctgatat ttatgaacca caagcagaca ttgttacagc ttctttgtca 120
 acatgtaatt ggactntgca actatccaat caatcatagt tataaattag taatcatatc 180
 acaaattata gatgaaaatt acttatccat tcatttaaag attaaccatt ggtaaaaaga 240
 anaacttata cgatatcaat taattacata tataatatct atatctagaa ctataatgat 300
 ctaattgtct aattgacacg attacaaaag tctcgtttaa tatctttccg tcaagaatac 360
 cttagcttat gttatatata tttcgcaacg acttcgttga cattaat 407

<210> 3772
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 3772

agcttaacaa ttcaaggtga acaagatctg cttgcctcag ccattttatt tattgtacaa 60
 tcttgatatt ggaaatctat aattgacaac atctgcttgc ctggattgct aatctagtgc 120
 tggccttgca tcaatgtctc cggttgcaag aaattcaagg atattcgccc ttgaaaaaat 180
 gattgctact tcttctacaa cattgctgtc aatggcatct catttgtcac aggcagaaga 240
 gcgggaacgg gttttcagtg gcaagggacg ttggaaccaa ctccgttccc ttcctgaagc 300
 caagaatttg atgaatcatt tgttcaatct ggcattctcc tccaggtaga gtagctttat 360
 ctgcaaacaa aatttatggg ccatgttgtg atgaatgact gaatctttgt ctatgccttt 420

ctatatttca cgtgttcatt gcgagat

447

<210> 3773
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3773

ctanaagaat ggctaagaat ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 60
agttgctgca catgatgtcc aacgttatgt caaagaataa gatcgggctg cacaatgcac 120
aaggcaagat aaagtgtcaa atgaagaatt gaagctgcag gattcacgat gtcggataca 180
atgtccagga catcctgccc gaaaatactg gagttgctga aagcattgaa gttgcaggat 240
ccacgatgtc ggatacaatg tccaggacat cctgcccga aatactggag ttgctgaaag 300
cattgaagtt gcaggatccg cgatgtcgga tacgatgtcc aggacatctg gcccgaaaat 360
actggacata taaatctgtt atatctttaa cagattattg tgcagttagc aagagattag 420
atgatctat 429

<210> 3774
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3774

nttagccaat acacacgaca gacaactttg tgctcggata tctgattgag tccagtaata 60
taacgagacg ctcgaaattg aatgttgaag ctcttagcga attcaaacat cattaagtgt 120
ttactcggat gtgtgatgct gtcccgatcat atatcgagac gtcgaaatt gaatgttgaa 180
actctgagcc gattagaacg acaataactt ttactcaga tgtctgatag agtcccgta 240
tatatcgaga cgcttcgaat tgaat 265

<210> 3775
<211> 355
<212> DNA
<213> Glycine max

<400> 3775

agctcttgcg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttgtattc tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcattg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac tttcttggag 180
gatagacatg tggaggagta actggcttct tgacgtgtcc ataggtaaca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcacgaagca ttctgacttt 300
gtgaagatta cattgaatcc ttcacacac aactgactga tgctgatcaa gtttg 355

<210> 3776
<211> 259
<212> DNA
<213> Glycine max

<400> 3776

gaataaaaaa tctgcacatg ttacaagagt ttgtggtcta tgttcttctg cagatcatca 60
tacagatctt tgtccttctt tgcacatc tggagtcaat gagaaacctg aagcttatgc 120
tgcaaacatt tataatagac ctctcagca gcaaaaccaa caacagcaaa ataattatga 180
cttttcaagc aatagatata atccagattg gaggaatcat ccaaactga aatggacaag 240
tgtcatacc taatttcgt 259

<210> 3777
<211> 430
<212> DNA
<213> Glycine max

<400> 3777

tcaacattca atgtcgagcg tctcgatatg ttacgggact caatcacaca tccgagtaaa 60
aagttattgt cgtttgagtt ggctcagagc gtcaacattc aatttcaaac gtctcgatat 120
atgacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctgagag 180
cttcaacatt caatttcgag cgtctcgata tggtacggga ctcaatcaga catccgagta 240
aaaagatatt gtcgtttgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300
atgtgacggg actgaatcag acatccgagt aaagagttat tgctgcttga attggctcag 360
agcttcaacc ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccga 420
gtaaaagata 430

<210> 3778
 <211> 435
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3778

agctntgagc aaattcaaac gacaataacg ttttactcga atgtctgcat gaatcccgta 60
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag caaattcaaa cgacaatgac 120
 gttttactcg gatgtctgat tgagtcccgat catatatcga gacgctcgaa attgactgtt 180
 gaagctctga gaaaattcaa acgactataa ctttatactc ggatgtctaa ttgagtcccg 240
 taatataacg agacactcga agatgaatgt cgaatctctg agccaattca gacgacaata 300
 actttttact cggatgtctg attgagtctc gtaatataac gagacgctcg aacatgaatg 360
 ttgaagctct gagccaattc aaacgacaat aactgtttac tcggatgtct gattgagtcc 420
 cgtaatatat ccaca 435

<210> 3779
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3779

gggactngat cttggattag tgggctgaac cataactgaa attttgtaat cataattagt 60
 gaaattttgg ctccacaaat tgaatttcaa atttcctcc aattttatgt gacacttatg 120
 ctataaatag aggccatgtg tatgcatttt ttcaacttta atcgtttgaa aattacactt 180
 caaagttcaa agctcatttg aggaacaaca ttttgtgctc cttctctcct tctccctccc 240
 ctcatcttct cctatcttca aggtcttata catgactttt tcatcaatgt ggtaattgat 300
 gccctctcta ggagacacac attgttttgc tccctaggag ctcaaatttt aggatttgat 360
 aacatttggg acttgatgac tgtagatgaa cattnttctc ccattcatga 410

<210> 3780
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3780

tgttttccaa cattcaggaa taatggaatg tgatgttgca aattttaatt ntccttgtaa 60
 taaatcagta aagtaaaaat gttaaattat tcattctttc attgtaataa agaattgaac 120
 cttggaataa ttttttgta tataattaaa ctgactaaaa ataactagcc caggtcttaa 180
 cctttccagc attcctcata gttgcaattc ttttttctt aaaaaccatt ttgcttcttt 240
 cttaaaaata taacttctgc tggattgctt angcactttc ttgcatataa gtagagctta 300
 atatcttttt ctaggaattg taaaattgtc tagtaattgc catttttcct ttggcagatt 360
 gagaagctta gtgatacaca gtgccagcct gaatcacagc ttaagttcat aacagaggcc 420
 tcggtacagg taaatgaagc ttat 444

<210> 3781
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 3781

agcttccctt gctcctctct gacttcgctg accagcttca tgacctcacc cttttgatct 60
 tcaagaactt ccaaaacctc tcccttgctg tgcagaagt aaatcacagt gtacattttc 120
 atccccatcg ctcttgctaa caagctcatt cttatgggca aacggaagta gatgttcctc 180
 aaccatggat tatgactaag aacttcttgt gctggagtgc gacaacagtc tattgccacc 240
 cagaattgct ccttttcggt tattcttacg ttgtctggaa accccggaag gtcagctaatt 300
 agttccacac ttccactttt aggacctct gtccaaagct tcattagcct gtcacgtgt 360
 cattttggaa tgaatgtgtt acgttatata tattacatat agagcacata ttgtatatat 420
 tcttatctaa ttacaatata ttttttcacc c 451

<210> 3782
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3782

agcttattcc ttatttttaa ttntttttct ttacaaattt aggttaatta caatggtagg 60

aaaatttaaa atgtaacaag aaaattatatt tataaataat aaaaataaat cttatatatta 120
 tgtttctttc tacttttcat attgaacaaa ttggtttggc cgaaacaaag aaacattttt 180
 ttttatttat aaagagattt ttagtaaaaa aaattcaaat aacttctatt ttatttttta 240
 agttttatgt ttagttctaa attttaaagt tacttttaaa tcctatgtgt cttatcttct 300
 aatctatcat atttgatct tatctttatt agatattaat attttttgc tctattaaat 360
 atnttcttgt acttaataa cattttatatt ttatcatata tggctatttg tatttgaggt 420
 ttctc 425

<210> 3783
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3783

tcgcactttg atatggagac acatgaacag cgctatgcca tgacattcat tgtgcttcca 60
 accaagggtg aatatgggag aatggctttg aggggtccac ttangccatc atgaaactta 120
 acttccaact tcaaaatggg agacacatga acaggcccta agcaaactcat gtggcttcgg 180
 aacagaacga gaatggagga tngcctttga ggtcctctct tangcaatca tggaacacag 240
 cttcaaactc gaaagtggag gacacatgaa cagccctaag caataacatt catgtggctc 300
 cggaacagga tgagaatgga ggattgcctt gagggtcctc tcttangcaa tcatggaaca 360
 cagctccaaa ctcgaaagtg gaggacacat gaacagccct aagcaaattc atgt 414

<210> 3784
 <211> 363
 <212> DNA
 <213> Glycine max
 <400> 3784

agctttaatc gattacaatg ttttggtaat cgattaccag tgactctgaa cgttgaaatt 60
 caaattcata tgcgaagagt cacatccttt cacataaaag ctttgtgtaa tcgattactc 120
 gatttgcgaa tcgattacca gtgactgttt ctgaaaaaat cataagatgt aactcttcaa 180
 aaaggttttg actttttcaa attggattta agtttttcta aaggatataa ctcttctaaa 240
 tggctcttct gaccagacat gaagagtcta taaaagcaag gctttgattt ggattatcaa 300

ttaattcaat tctttcaatc ttgaatactt ttccaatcaa tctcttaciaa tcctttacta 360
gcc 363

<210> 3785
<211> 461
<212> DNA
<213> Glycine max

<400> 3785

tatatctggt cgagtgcagg tctgagcata cataatactc ctaacaactg atacatacag 60
aattgcttcc atttgcttcc gttccagatc atttttagga cattgtgcga gactaaattt 120
gtctcctttc tgaattggaa cgggagatgc tgagcacttt tccatcctaa atctctctag 180
tactttattg atatatgctt tttgagacaa gcctaacaat ccttgtgatc tatttcggaa 240
tatttctatc cctatcacat agcttgctc acccatatcc ttcatttcaa agttactaga 300
aagaaacttc ttagtctcat gaagaagacc aagatcatta gttgcaagca atatatcatc 360
aacatacagg actagaaaca taaccttact tccactgacc ttcagatata cacaccgatc 420
aatagtgttt tccttagatc caaaggaaac aatgggatca t 461

<210> 3786
<211> 454
<212> DNA
<213> Glycine max

<400> 3786

gaagcttggg gccaaaattt cactaattat gattattgaa ttttagttat ggttcagccc 60
actaatccaa gatcaattgc aagattctcc actaagtgtg cttaggtgtc atgaggcatg 120
taaagcatga aggacatgca caaatgtga ttatatgatg tgacaatggg gtgtagtaag 180
caaatgctca cctcctcctc taaaatttaa ttggattggg cttcaaccaa ttcaattaaa 240
tttatttcca actacacaca tcaaattatc acttagtgca tgtgaaatta caaaactacc 300
cctaatacaa aaactagtct aggtgcctta aaatacaatg gctgaaaatc ctatatttcc 360
agcgtaccct acctacatta tggagcctta aatacaaggc caaaaaataa tgaaacctta 420
atctaatatg tacaaagata agtgggctca tact 454

<210> 3787
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 3787

agcttccttg agataattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
 ctaagctcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcagcc ccatgacaaa atacatgaaa atacagaaaa gtccttacta caaagactac 180
 tcaaaatgcc tcgaaatata aggctaaaac cctatactac tagaatggcc gaaatacaag 240
 gcctaaacaa aggtaaaatc tattctaata ttacaaaaga taagcaggct catacttagc 300
 ccatgggctc gaaatctacc ttaaggctca tgagaaccct agggccttcc cttggatctc 360
 tggcccaatc tacttggagt cttctatcca atgcccttgc gggatatgat tgtatcattc 420
 ctccctcctt ctcatctct ctatttggtc 450

<210> 3788
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3788

tgaagggtgtg tagcccacca tcttttcata gtagtatatt ggtaatgcgt ctactattat 60
 tggcatcatt gattttctct gtcattgagg tgctactga gctgccaagt ctctccacct 120
 ttgggcgtat cctttgaaag atctgtgccc tctttttgca catgttctgt agttgcatcc 180
 tatccgaagc cattatactg aactgccta acgaaggcaa cactagggtc cttccaagaa 240
 tggactcggg aaggttccaa gttagtgtac caggtaacag ctacccaggt aagactctct 300
 tggaaggaat gtatcagcaa ttcctcatct ttgctgtatg ccccatctt ccgaaaatac 360
 atcttttagat gggctttggc gcaagtagtc cccttgtagt cgtcaaagtc cagcaccttg 420
 aacttgggan gggatgatgat a 441

<210> 3789
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3789

tcacanaaaa ttcaaaacca atagcaacaa ccatccaaaa attgttacia acaaaaatac 60
aatcatgcaa caacatcgca ataggaaaaa atcagtgaac gcttaaacia aatcactgaa 120
caccttcaaa gggaacatac cacttacctg gaagacgatt accttacgac cggaacaaaa 180
taggaaccac caccaatgga agaagtgaat ggtagaagaa caccggaaca acaacaatca 240
cgaccaaagt accagaacag gaacacgaac cgaaacacga acgaacgacc gtaacacgag 300
cgtaggcaaa aaaagaagaa caagcggata agaggaagat gaagaggaaa tagcaccata 360
tgaaatgtga gaagcanatg cactgtacga atgactaact ntaggattnt atagtaata 419

<210> 3790
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3790

agctntgact aaaccaatgg catgctacac tgtataagac taaactctat tatcaaaatt 60
gtaactgttt tctctatcct agggagttat gccacggacc aagggtacag gtggcttggt 120
tttctttatt ttatccacca atatagcttg agtagttaga actgcaccag caacagaaac 180
tgcactttga agagcacacc ttgcaacacg actaggatcc gctactccag cattcaaaag 240
atcttcatat gtgcctgtca ttgcattata tccaattctc caatcatgtg ttctaattctt 300
ctggacaaca atg 313

<210> 3791
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3791

agctntccat tctcttggaa gttcatcatt ggatttgact tcttccggag gatcttcatt 60
gtttccttta tcatttcctt tggaatcttg ttcatgaata ttcatatgtt ctaaagaatc 120
tgcaatatca tctagcatat tctttcttga cagaatagca ttagattcat caaaggtaac 180
atgaatggat tcctcgatat tcatagntct tttattatat atcctatatg ctttgctttg 240

taatgaatat ccaagaaaaa taccttcac agattttgca tcgaattttc ctagattatc 300
 tttaccatta ttaagcacia agcacttgca accaaaaaca ttagatgag aaatattagg 360
 ttttctacca ttatataact catatgggt tctctnntaa atgggtctta tcaaggccct 420
 attcatgatg taacatgcag tatt 444

<210> 3792
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3792

tctatactnt atacaagaat gaagctctga taccacttgt tatacaagtgc cctcagata 60
 tcttaagaag gggggggggg ggtgaattaa gatattccaa actacttccc caattaaaaa 120
 tctatttcac tctctattca agttataaat tcccttaaca atgaacttcc taaatattaa 180
 tccaaataac aacaatttga atctgaatat aaaccaataa taaacaaacg agtttattgg 240
 aagacaaagt gcaaactcac atttatactg gttcggccac accctgggtgc ctacatccag 300
 tccctaagta acccgcttga gagttcacta tcttgtaaat tccttttcaa gtt 353

<210> 3793
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3793

tgtcaggttc aactntaatt aagcgcttgg ggcacccat ggactgagcg aaaaggctca 60
 ggacatcaaa cactacgcat cttttaagc acaaagcgag gatcagaacc tcaaccctat 120
 gttcatttaa aatactgcga tgagaaaatt atagaggaca ggaacccttg ggggaaacca 180
 agaagaacat acaaaagata aaacatgca gcaacttctt taattgcccc agatcttaag 240
 cgtagtatcg cttgacaacg tcggagttca tgggtgaagg tagctcctcg tcatccatgt 300
 tggcgagcac cagggccct ccttagaaag ccctttttac aacgaaaggc cttcgcagt 360
 tcgaggccca ctttctcta ttgtccttta gagcttggga gactttcttc agcaccaagt 420
 ccccttcgct gaacctgcgc gagcatacct tctt 454

<210> 3794
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 3794

cttttagtaaa taaataaata tagagcacat aataggctga gtaccctagg tataaataac 60
 tatgttaagt gaggtgtctc ctcttggcct cattttcgtt tttcccttc tcttctcaaa 120
 actctttctt tgtaccgcag cccaccaaac ctgtctgaga aaaacgacga tctcagactc 180
 atttaccgtt ggatcgtcgt gaaatttttag cagcacgttc gtaacccaat tccgagcatt 240
 ctcactactg ggaattgcaa aaacatgtca gagctaagag aaataccctt cgcaccgtag 300
 ctttctcttt tcccgagaa acccaaaaca gtctcagtaa aactatgatc ccagtttctt 360
 taaccggtgg attttcataa aatttgggta tgttggtcga aattcaattg cgcacacttt 420
 caccgttggg ttctcgcgaga taatattcgt ggaggg 456

<210> 3795
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3795

agctngaagg taaactagat gccttgggta acctggtaac ccaactggcc atgaataaaa 60
 aatctgcacc tgctgccaga ctctgtggtt tatgtctctc taccgaccac cacacagacc 120
 tttgcccttc tgtgcaacaa tctgaagcaa ttgaacagct tgaagcttat gctgcaaaaca 180
 tctacaacag aacaattatg acctctctag caacaggtag aatccccgggt ggaggaatca 240
 tcccaacctt agatgggtcga atccttcaca acaacagcaa caacaacctt attttcaaaa 300
 tgctgttggc ccaagcagac catgcgttcc tccactaatc tagcagcaac aacagcaaca 360
 gcaacagccc caaaaataac aaatagttga ggcccctccg caaccttccc ttgaagaact 420
 tgtgaggaaa atggctatgc aaaacat 447

<210> 3796
 <211> 458
 <212> DNA

<213> Glycine max

<400> 3796

tcacccctcct ctttgtgaca atcactggct tcttctcacc attgttttca gcatcatttc 60
ccaaagggta ctcttcagtg acactactac tagactttgt tgtttgcttt ccgaatgaat 120
gctcggattg aggcacaata ttgttctttg gtgcaacact tgttggtcca atggacttgt 180
ttctcacact tgtcatgctt ctcaaccttc ctttccctaa gtgatgctcg caaagagagt 240
aaccacacaa gggtttgttg aaacacctcc atcctcttcc gtttacacga ctgcaccttg 300
aaccttccat tagtgcacta ccccttacct tcttcttacc aacgtttgct tgttcgggtt 360
tcgtttcctt tgttgccgcc tcttcttggt tctctacctc ttcttcattg ctatcgtctt 420
gcctcgaact cttgttcacc ttctcttcca ttctcttc 458

<210> 3797

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3797

ntgtgcgtag gaatttccag ttatgtgcag ganaagttta atatgtctat gatgggagaa 60
atgactttct tccttggtact tcaagtcaag caaatgaatc atggaacctt cctatgtcaa 120
ataaagtact atacaaaatt gattaagaaa ttcagtgtgg agaagtgcaa agaaacatca 180
acaccaatgg caacatccac ttatcttgac ttagacaaaa aaggtaaatt ggtagacgag 240
tcaaagtaca gacatatgat tgggttactt ctttatttga ctacaagtcg acccaatatt 300
atgcatagtg tttgcttgct tgcaagatat caagcaaacc ccaaggaatc caatttaact 360
tctatcaaag ggattattaa gtaacttaag ggcacaacca atgttggttt gtggtatccc 420
aagggtacct ctntgagntt aattcacttt tctaatt 456

<210> 3798

<211> 433

<212> DNA

<213> Glycine max

<400> 3798

agcttagatg gagaagaaga cagagcgcca gcttcatagg tctcaccata ttttttaaaa 60

tataagttca acattgggtt tttaaaaaac accgatgtta acatcagttt tctggaaaaa 120
 aaaaaaaca atgttaacat atcaaacgtt aacatcggtt ttctaaaaac ccgatgttaa 180
 taaacatatg ttaacatcgg ttattaaaaa accgatgtta actaataaat gttaacatcg 240
 gttctccaat gaccgatgtt aatgaacttc gttaacatcg atttttcaca aaaccgatgt 300
 taacatatat acggtattta caattatgtc accgcgcata tgtaaacatc ggttttttta 360
 acaaccgatg ttaacacacc gatgttgaat ccgctttttg tagtagtgat agctgccctt 420
 ataagattat agt 433

<210> 3799
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3799

tataaaactnt gttacctgac attntgctct gttctcatct aaacgagtta aagcatgaan 60
 aatttttgca ggaatgtag gagcattctt caagcatatt aatgcactgc atttaaatac 120
 acatgaacgt ttgcataaac aggcacaaca tgcaatttca agtttactca taaaaagcca 180
 agcttacttt gtattgcaag ggtttcccac tactataact ttgacattgc gggatgcaac 240
 ggcatttaaa gctcttcctt gttgtacaaa aggtataatg tcattataat taacttcact 300
 ttagcagaaa gcaataagta tgggttaaat ttcatatca ttttacctgc gctgcataaa 360
 tctgcccatt tatgtctaac aagtctgtc gttccattcc aggtcctcga ggctttgcac 420
 ctattagcaa agcccattct gcatcttgga acacttcat 459

<210> 3800
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3800

agcttgtaat cgattacaca catactgtaa tcgattacca gaagagtttt tcagaaaaca 60
 ttctcaacag tcacatcttt gtgtgtggtt ottgaatggc tatcataggc ctatatatat 120
 gtgacttgag acacgaattt gacaagagtt tttcagaaca aaaaaggctt tatcctctta 180

taaagagaaa tcgtttttatc ctctttacaaa ttccttgggc aaattacttg tgattcaata 240
 aggtattatt tgagtgtca aattgttcaa tctatctctt gcaagagaga tttcttcttc 300
 tcttgttctt cattctgaan agggattaag agaccgaggg tctcttgttg tgaaagaatt 360
 ctaaacacaa aggaaggatt gtccttgtgt gtttagaact tgtaaaagga atttacaaga 420
 tagtggaact ctcaagcggg tt 442

<210> 3801
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3801

tattacggac ctatgaatac tcaagcttga gaatttcaaa tgagaataac tttntactca 60
 gatgtcttat tgagtcccgat aatatatata aagacgctcg aaattgagga aagaagctct 120
 gagcaaattc aaatgacaat aactttttac tcggatgtca gattgaattc ggtaatatat 180
 cgagacactc gaaattgtga tccgagggcg tgagaaactt caaacgacat taactttata 240
 cacggatgtc caattgagtc ccgtaatatata tctagatgct cccaattgaa aacggaagct 300
 catagaaaat tcaaacaaca ataaaattat caaatgatgt ccaactgagt cccgtaatat 360
 atcgagccgc aacgaattga aaacggaaga tcgtaccaa ttcaaacgac aataactntt 420
 tactcggatg tctgattgag tccccgtata tatcga 456

<210> 3802
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3802

agcttccggt ntcaatttcg accgtctcga tatattaccg gactcatccg gacatccgtg 60
 tataaagtta ttttcatttc aatttgctca gagcttctag tctcaatttt gagcgtctcg 120
 atatattacc cgattcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgata 180
 cgagcttcca ttttcaattt ggatcatctc tcgataaatt acgacactct ggtgcgcgtg 240
 cgaataaaaa gatattgtcg ttagactttt ctaagagttt ccatttgcaa tctggagcgt 300

ctgcatatat tacggcactc aaccacacat cegtgtatac tgtagtgac attcaaagt 360
tctcagagct tctagtctca atttggagcg tctcgatata ttacccgatt caatcggaca 420
tccgagtaaa aagatat 437

<210> 3803
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3803

tagcccataa ggttntccaa aagtggctat ggaacttagc atctctatct gacacaatgg 60
tcctaggcaa accatagagt ctcacaactt ccctaaagaa gagttctgag atgtgagaaa 120
catcatctac cttgtgtcat ggtataaagt gtgtcatctt gctaaaccta tccaccacca 180
caaagataga gtctacacct ctttgggttc taggaagccc aaggacaaag tctatactaa 240
tgtctaccca cggtgcaa at gggatgggta aggggtgtgta tagccaatga ggcacacct 300
tagacttggc ttgtaaacia gtcacacacc tagtgcaatg cttatggaca tctctcttca 360
tatgggattg ttaacaacga gtgctctttt gatgtcacct tttgtggcac aatgattctc 420
cttcttaaca atcttctt 438

<210> 3804
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3804

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ttggaggtag gttactgcta aatacttttt tattttttat tttattttgg atgtgtatca 120
tttgatcact attatttact tttgagatat gtgtgggtttt tttactatag ggacatgaaa 180
atgaagtgaa gtgtgtgtct tggaaacgcg ctgggacgtt gcttgcaact tgtagtagag 240
ataagtctgt ttggatatgg gaagtgtctgc ccgggaatga gtttgagtgt gtgtcagtgc 300
tgcaaggaca cacgcaggat gtgaaaatgg tgaagtggca tcccacagag gatattctgt 360
tttcatgttg ctacgataat agtgtaagg tattgttgcc aatgctaaaa gattatctcn 420

ctctttaatt tcatttttgt tcatttat

448

<210> 3805
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3805

agcttgcccta attaagctaa aattgagaga aaatgattat taagcacaca aaatagaagt 60
actaagtatt tattacctat acttaacaaa aaatacttat aacactacaa aataacaata 120
aattggaaga gtttgatata atttacacaa gttttatata taaaagttag tcgtattcat 180
cgactaacag ttgtcgggag gtttgcggtg aacatatgca aattcctagc atcatatgca 240
ccaccttggtg aagttgaggg catctgcctt gagggtcggc caattttagc cactgcatac 300
taccttggtt gccaaagagc gacccccagt atgcaggctg cagtttcctt tatgcaactt 360
ccacatgacg tagtctactt gttggttggt caggcactta agcaaggggtg ttgtcatcct 420
tattntgaat agttcaccat caaggatgac atagt 455

<210> 3806
<211> 369
<212> DNA
<213> Glycine max

<400> 3806

agcttgaagg caaactggat gcgttggtca acttggtaac ccagctggcc ttgaatcaga 60
aatctatacc tgctgcaagg gtttggtgat ggtgctccta tgctgaccac catacagacc 120
tttgctcctt catgcaacaa acctggagca attgagcagc ctgaagctta tgcatgaaat 180
atttacaata gacctcctca acctcagcag caaaatcgac cacagcagag caattatgac 240
ctttccagca acagatacaa ccctggatgg aagaatcacc ctaacctcag atggtccagc 300
cctcagcaac aacaacagca gcctgctcct tccttccaaa atgttgctgg cccaagcaga 360
ccatacatt 369

<210> 3807
<211> 450
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3807

cgcanagttt ttctctgatg gcgatgggac caacactggt gaagcttctg aagctacaga 60
atgcagatgg ctagtggtt tccatgcagg cagcagaggg cacagcaacc ctgcatttga 120
atgatttttt agtgaataatc gttgctgaaa cagagctggt cttttcagac gttcgttaaca 180
agttccaaca tgtggggaaa ggttgaggtt ggatctcaag tgaagctggc cagcaagctt 240
ttgttctatt gtcgggtacc gttgtttatc aaccatcatt gcttgagtag ctgagtactt 300
agaattacta taaactgcaa cagaataaat tatgttttagc tatttatgga cttaaataaa 360
atcaaggcct aggttatttg agttcaagag taactgtaa ttccaaatta catttaagaa 420
gctaattcac agcttctgtt tatttctaac 450

<210> 3808

<211> 333

<212> DNA

<213> Glycine max

<400> 3808

agctactgtt ctggaggtgg cgatcaaaga caatgatgtt gttgcggatg actccgtacg 60
gagagagatg tttgatatta atgaactccc agaacgtgtg cctccagata gccctttggc 120
tccacatcgg ttcaggctgt aagatacagag ggggtggctca gcctaaggac agtatacgtt 180
ggcgcggttg acgggaactc aggcagacca ggcatttctt gatgcatggc cttctgatgc 240
agcatctgtt gtgcctcgac ctgttgcaaa catcagatca aagggtttacc ttatccctac 300
tctctggtgt gtgacggtca atgatattga cgc 333

<210> 3809

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3809

tntatctttt gcatatacat gtaccaattg aatcatagct atttattttc actagacatt 60
gggtgccatc cagggaaacc ttttcaaatt taaaccatct taaataatct gaattacagt 120

atatgcatct aattgacggtt gtttgcttgc aaactaactt agtaccatgg aggaaccaac 180
 tttgggagaa cagcctctgc ttatgttata acaggctatt atgatcaagc cccacttgat 240
 gaatatggca agtgcacaaa attattattt taacacctca tctcatttga tgtttataaa 300
 tgttgcacac tttcttatta ggtttgctag ggaacccaag tgggacatct caagcggtac 360
 atgaagtaat aagtcttgct ctacacatta tac 393

<210> 3810
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 3810

agctcgaact attatactta ttctaacttt agatctcact agtaaccgga ccattcaaca 60
 tgtggatggt gacaatgcat ttttaaattg attgctggag aaggattatt atgacgacac 120
 agccccgggc tttaaattag aaaaaaaaaa atctgctctt ggttgtaagc ttcagaaagc 180
 tatttatgac ttgaaacaga ctgctcaggc ttggttaagag aggcctacta aaaccctcat 240
 tggggttgga tttgttcaga gtaaattgca tccatctctc ttagttctca agactattgc 300
 tggctgactt tatgagctca tctacgtaga tgacattatc ttaaca 346

<210> 3811
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 3811

agcttgcgaa atgtgttgta caatcgttca aatgaagggtg cacaatagc atggatatta 60
 acaagggttg tagccaagtc cctagcatta ttcagccacc ccccaaaacc aatcccttcg 120
 atcaaaaaag tgtaagtagg ttcatttggc agacaccctt tgtccaccat cgcagccaac 180
 acttcagtag catcactaac tctaccctact ctgcacaacc caagaagaac aatgttgtaa 240
 ctaacaacac tgggcttaca ctactactc tccatctgca tgttcaccaa caactcaatg 300
 gcctcatgca ccatcccatc cctgcacaaa caagatatata gcgaattata cgcgat 356

<210> 3812
 <211> 452
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3812

ctggagtttc caagtgccaa ttcgtcttct tcttttgtcc agtcttcttc tggcttcaat 60
tcattagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180
tcatagttagg ttccatccac aatgggtggg ctgttcaactg gtccctccttc tttctccatg 240
ttcatcagaa tttatctccc tagatctcac tcagtgattt acagtgcccg ctctgatacc 300
aattgaaatt ctgatactga ggccagatgt cgtaccggat gtcacgacat cacgcttcag 360
aacatgcaga ttatatattga ctgtatgaac agattaaaca agtnaataac acaagagaat 420
tgtaaccag ttcggtgcaa cgtcacctac at 452

<210> 3813

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3813

tgcttcaagg tggaggcaat tgagcgagaa gttgaccttg gaagtacttg tcaatgagac 60
tgtaccatgc tctcagtgt tgtntagtc cataaaaagc cttctttaac ttgagaactt 120
tgtcttcttc taatgtcacc tttaatgcca acggatgttc gatgtacact tcttgacaga 180
ggactccatt cacgaaggta gacttcacgt ccatttgatg aattctccac tagtgttgag 240
ttgccagaga gattattagt acgatgggtc ccaggcgagc gaccagagca aacacctcaa 300
cataattgat aattgtgaaa tttgagggtc tctgatagtc cattttggct aagaatgatt 360
gtaatttctt tactgtattg tttttttaat aaaataataa agaaattaat atctttgcag 420
ttcttgatta acagaagtta aaagaacaat attt 454

<210> 3814

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3814

agcttgtaag agcttgggtca cttcctttnt caccacatct ataatgacgg ggttgagtcg 60
 tcgctgtggc tacctcactg gcttagctgc atcctctaaa agtatcctat gcatgcaggt 120
 agatgggcta ataccaggaa tgtctgctaa agtccatcca atggccttct tgtgcttctt 180
 gagcaccggc aacaacttct cctcttgctc aacatcaagg gaagcagaga tgatcactgg 240
 aaatttgatg caatcctacc ccgcaagggc attggataga agactccaag tagattgggc 300
 cagagatcca agggaaggcc ctagggttct catgagcctt aaggtagatt ttgagcccat 360
 gggctaagta tgagcccgct tatctttgta attattagaa taggtttttt ccttcgttta 420
 agccttggtta tttggccatt ctagtagtat 450

<210> 3815
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3815

agcttctcca agacatttaa gaaagcaaatac tacataatct tattctcggt gttgtttaat 60
 cacattctta tctcaagtac aatttggagt agctcttgga tcttccagag ttacgaaaac 120
 atatcattaa tatttattga tatttgatga tattttctaa attttatcaa aaaaagttag 180
 taatattttt gcttagtggt agaccaaaaa atgttcttaa agatcaggta gtgaaagtgc 240
 aacccaaaaa atatacttag aaaatatgag cataatgcca ctaaaaataa cattntttta 300
 aactatactt gacacttgct atcagtaatt tgattattgt caaaatactt atactatttg 360
 attcatcaat aatatctttg acccatttat tagaaaaatc tcatttatta atatgagtat 420
 ttaataataa ttaatgttat actccatttc t 451

<210> 3816
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3816

ntgagcaaata tcaaacgaca ataactttnt actcggatgt ctgattgagt cccgtaatat 60
 atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa ttcaaacgac aataactttt 120

tactcggatg tcagattgag tcccgtaata tatcgagacg ctcgaaatgg aataccgaag 180
ctctgaacaa attcaaacga caataaattt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatt gaataccgaa gctctgagca aattcaaacg agaatacatt 300
tttactcgga tgtctgattg aatcccgtaa tatatcgaga cgctcgaaat tgaatatcga 360
agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgta 420
atatatcg 428

<210> 3817
<211> 425
<212> DNA
<213> Glycine max

<400> 3817

agcttctaca tgtcaattac tagcgtttcg agatattacg ggactcaatc ggacatccga 60
gtaacaagtt attgtacttg gaattagctc aaggctactg tataccattt cgagcgtcta 120
gatataattac gggactcaat cggacatcag agtaaaaagt tattgtagtt tgaatttgct 180
cagagcttcg gtattccatt tcgagcatct agatatatta cgggactcaa tcagacatcc 240
gagaaaaaag ttattggagt ttgaatatgc tcagggcttc agtattccat ttcgagcgtc 300
tcgatgtatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tgtgaatttg 360
ctcagagctt ctacattcga tttcgagctt tacgatatat tacgggactc aatcagacat 420
ccgag 425

<210> 3818
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3818

agcttgtcat gattgtaagg tctaaggaaa gatataacag gagcaaccaa aggctntaag 60
gaagttataa tctagatttt tgttgaaagg gacagtatat ggaacattaa aattcagaga 120
ggcagcaggc aatctattta tcaagtatac tgctgtagtg caagcaaaat cctataacat 180
tttggtgatg agtgtgagga cagatcaatc tctgagtaat accttggttt gctaaaaaat 240

tggtttagagg tctgaactgc cctccccagt ctgtttgaac tcttttaatt ttggaatcaa 300
 actgaagttc agccattagc ttgaactggt ggaaaacagt gaaggtttct gaattatttt 360
 aagcaaatag atccatgtaa tagtaaaaaac catattttga aggaatgtat gcaggactcc 420
 atagatcact atgtatta 438

<210> 3819
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3819

tgagcaactt caaacaacaa taactttnta ctcgatggtc tgactgagtc ccgtaacata 60
 tctgagacgt cgaaattgat tatcgaagct ctgagcaaat tcaaacgaca ataacttggt 120
 actcggatgt cagattgagt cccgtaatat atcgagacgc tcaaaatgga atacccaagc 180
 tctgagcaaa ttcaaacgac aataactttt ttctcgaatg tctgattcag tcccgtata 240
 tatcgaaacg ctacaaattg aataccgaag ctctgagcaa attcaaacga caataactct 300
 ttactcggat gtctgattga gtcccgcaat atatcgagac gct 343

<210> 3820
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3820

agcttcaaca gttgaatttg agcgatttga tatattacga tacttaatcg gacatccgag 60
 taaaaagtta ttgtcgtag aatttgctca gagcttcggt attccattac aagcatctcg 120
 atatattacg ggactcaatc agacatccaa gtaaaaagtt attgacgttt gaatttgctc 180
 agagcttcga gaatcaattt cgagcttctt gatattacg gggactcagt cagacatccg 240
 agtaaaaagt tattgtcgat cgaatttgct cagagcttcg gtcttcaatt acgagcgtct 300
 cgacatatta cgggactcga tcacacatnc gagtaaacaa gtgagtgtcg tttgaattga 360
 gctcagagct tcaacattca 380

<210> 3821

<211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3821

tcacttcact tcttcaagtg gtgcaggata tgcttccaga ggaaaacact tttccaaaaa 60
 gttactatta ggcaaagaag atactatgtc cgatgggtat gaagtaccag aagattcatg 120
 catgccctaa tgattgcata atgtacataa atgagtttga agaaatgcac aactaccctt 180
 ggtgtggggg atcacggtac aaagtgaagg atgatgacga gtgtagcaat gatgaaagca 240
 ccaagaaagg cccctaaca aagggtgttat ggtatctttc gatcattcaa aggctcaagt 300
 gtttgtttgc taatgcagat gacacaaaag accttacatg gcatgcagat gggagaaatt 360
 gtgatggaat gctccgccat ctggattatt cctcttagtg gaagaagatt aatagtctgt 420
 attcanaatt acgcaaagag gcaagaaatc 450

<210> 3822
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3822

agctntagta acaccattg gccaatctga aattccccat cataccttct taagaactcc 60
 ttccaaaaat tgctcacgaa aacaggatcc ctgtcactaa ttatgacaac tagtgctcta 120
 tgtagtttgc aaatctgggt catgaaatat tgagcaagtg ttgccgctat atatggctgt 180
 gaaagggcca caaatggac atacttgctc attcgatcaa taacaacca catggtgtcc 240
 ttgcaattgg atttgtgagg gccctcaata aaaccgttg ttatactttc ccaaaccga 300
 ctaggaattg gaagagggtg caaagtctag ggggtggcaat tgtatcatc ttacaccatg 360
 cacatgtatc acaatgttca atgaaatcct gaacatcttt aatcatcctt ttccacaaaa 420
 atagggatct caatctctaa tatgttgc 448

<210> 3823
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 3823

cgacaagtca gtctgtttta gtaataataa taataataat tataataata atatataatt 60
attattatta ttattattaa atacctatta ttactataaa aaaaaagctt gttaagcttt 120
gtgttttaac gacatgaatt caatatgatt ctatttatca attatttttg gatttgtaca 180
ttacttatac gaaattttat aagtttcttt ttttagttaa tatttcacta agtttttaaaa 240
taattaattg atcaaagata tctttaagca aactttttaa tagacttgaa gacaaagtcg 300
aacttttatg taagtcaagc cgagcctttg aaaaaagcc tatggcaggt aatgagttaa 360
gatcaagcct tgggtattca acttaagtca agttcaagtc taataaaggt tggcttgact 420
cggcttattt tcaccctag ttatgattta atttca 456

<210> 3824

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3824

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aagttattgt cgtttgaatt tgttttagagc gtatgttttc aattacgagc gttttgatat 120
cccacgggac acaatcggaa atccgagtta aaaattattg tcgtttgatt tttctaaaag 180
ctttcatttt caattacgag cgtctcaaaa tcttacggga cacaatcgaa catccgagtc 240
aaaagctatt gtcgtttgaa tttgctcaga gtttcagttt tcaattacga gcgtctggat 300
atattacaag actcaatcag acatccgagt taaaagttat tgcgttcga cttttcatag 360
agctttcggtt ttcaattaca gcgtctcgat atattacgag actatatacgg acat 414

<210> 3825

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3825

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tcaaggtgat ggcaactcaca ttcttcggat tctgcatagt ttgtgaaggc aatttgcag 120

aattttggga ctgagcttgg ttcaactgag tatccatctg tcccttttga ttgtgtcaaac 180
tctgaatgga ggctctngtc tcttgctaaa attgcatatt ctggatggtc attttcccca 240
ctaactcctc taaggaaggt tgagaagggg cctcagttgc ttgttgtctt tgttgttgtt 300
gctgctgttg cattggagga ggaacatatg gcctgcttag actagcagca ttctggaaga 360
gagggacagg ctcgttgtgc tgctgttgtt gttgtggagg atttgcccat ctcacacttg 420
gatgattc 428

<210> 3826
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3826

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taatcgaata ccagtgacca aatttgattt caaaatgttt ttaactgatt tgcaatgttc 120
caaaatattt ttcaaatagt gtaatcgatt acctgtgtat ctgaacgttg gaattcaaatt 180
ccaattgtga agagtcacaa cttttcataa aatgcattgt gtaatcgatt acatgactat 240
ggtaatcgat taccagtgat aactttttgaa taaaagggtca aaagttgtaa ctcttgacat 300
gatttttctca aggttataac tcttccaatg gttttcttga tcagacatga agagtctata 360
aaagtaagac cttgacttgc attcaataga actttntaca actctttgac aatttttttag 420
aacttctaag aattcctttc tactcatctc act 453

<210> 3827
<211> 445
<212> DNA
<213> Glycine max

<400> 3827

taataagtcc atctatggat tgaaacaagc ctcccgttta tggatattta aatttcatga 60
ggtcatttct tcatttagct ctgaagagaa tgtcatggat cactgtatat accagaaggt 120
cagtgggagt aagatttggt tcttgtatt atatgtatg gacattctgc ttgcgactaa 180
tgataagggg atgctatatg aggtgaaaca atttctctca aagaactttg atatgaacga 240
tatgggagag gcattcttatt tcataggcat aaagatccat agagaaagat ctcgaggcat 300

tttaggcttg tctcaagata cctatatcaa cgaagtttta gagagattta atatgacaga 360
 ttgttaccaa gtgtagctcc cattgtgaag ggtgacaaat ctgctttgag tcaatgctcc 420
 aaaaatgatt ctgagcggga acaca 445

<210> 3828
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3828

tgagttcttg agctattcct ctcagccaaa gagcttcctt tatagcctct atcagtgcaa 60
 tatactctcc ctctgtagtg gataaagcca ccaccttttg caggcttact ttctagctga 120
 tagttgtacc gaatgcatta aagttatata tagtgagtga tttcctagtg tcaaggcagc 180
 caacataatc aaagtccaca agcccttcta tggcagctga actgtaactg ttcttatcag 240
 ctctgccata agccagaccc tttccaagtg aacctttgat gtatctcaga atccacttca 300
 aggattgcca atgcaccttc cttggatttg acatgaatat actcacaaa ctactgagt 360
 atgctataatc acgtagagta tacaccatgg catacatcan agagcctatt gcatttgcag 420
 aaggaattnt agccataaat tccttgtctc tttctgag 458

<210> 3829
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3829

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 gttatagggtg gaaaaacatt agttaatttt acattgaaaa attgaaatga taattatttc 180
 aaaataatct tttttttact tgataattat tatgggattg aggaactact ctcttttatt 240
 taataatggt agttttttta aatatttttt cacctattta ttagtcttag gttgtttcac 300
 ctatttttaa aaattattct aaataaagaa taataattnt ataaaaactaa ccttattaaa 360
 caaacgaaag aaagtactcc ctctatctat actaatcctc acgtaagaag aacaaatttg 420

ttctaaaata attcttattc tagattttta tg

452

<210> 3830
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3830

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tgagcagaat tggccctagt gtaaaacagc taaaatttga actttgggtc taccaatatt 120
tattattaat tttttaaagt aaaaaatata acacatgtta attaaaagac cttacatatt 180
attattttct ttaaagtaaa aaaatatatt ttaattttta ttctaggtct cattttctat 240
tggaccgaca cttcagttga gattaanaat ttcactagga gaatagctcc aagtatttgt 300
attgtagcat cactaacaac atcgtgtcca ttggttgagc cacacaggta ttcacaacta 360
ttcttcatgt ccggaattag tgattcgatc aaaatactaa tcaacatatg cggagatata 420
aggtgggata gatgaataag atcact 446

<210> 3831
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3831

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agagaggcat agcagcaaca caagctgcaa ccatcaatgc ctgcagcaga ttgctgaggc 120
gctgttcttt aacttcaact ggcaaaaggt catcaacatc cttatctaca tcgaaaacag 180
cctcgtcaac aggggaatca atgtatccat gacttgaagc cagttggatg gtggattcct 240
tcagctcctt tagccctgct ttgaagaaca atatatagga taaaggagag agagataaca 300
aatttcaagt caaattggaa atcataggat tatacttacc agggcaggtg gtatttggcg 360
ggctaattga gtctgcattt ggtcatatgc ttcttgata ttcggtata attgacacag 420
gttcatattt tt 432

<210> 3832
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3832

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 tgaaagggac cccttgaccc agccaatcca cttttcatga aaccccatc ttcttatcat 120
 ataaaagaag aattgcccag acaccagtc ataccctttc tcaaaattca ctttaaacac 180
 caaacaaggg ctttttagatc tncctaggtc ctcaacaacc tcataagcaa tcaatactcc 240
 atgaagcagc tgtctgccct tgacaaaggc tgattgcctt tcatctaaaa ggtgattcat 300
 aaccttgctc agcctattag atagaacttt agcaatgact cttgtaacac agcctatgac 360
 ggatattggt ctgaaatcac taatgaatcg agggctccta atcttacgga taacggcaat 420
 gaatgatga 429

<210> 3833
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3833

tgtcaaaaag ggaagcaagt taaaaactct nttcaattat aaaacgttgt ttctacttca 60
 aaaccctttg aactacttca catagactta tttgggtgcct ctagaactat gagtttgggt 120
 ggtaattact atggcttagt tatagtagat gattactcaa gattcacatg gactttgttt 180
 ttgaaaacca aagatgaagc ttttgatggt ttttgcaaac ttgccaaggt cattcaaaat 240
 gaaaaaaggc cttaacattg tttcacttag aaggatcat ggaggtgaat ttcaaaatga 300
 gtctcttgaa atgttttgtg aagaaaatgg aattcaccac aacttttcta ccctaagaac 360
 acctcaacag aatgggtgtca tggag 385

<210> 3834
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3834

tgaccccaat ttgatcaaag gtaaagctaa cttgtattat acctattgca tcaagtggcc 60
tcagaataat taaaaatggg gggttgaatt aattattcct aaacctttac taattaaaaa 120
attactcttc taaggatttt actatgttgt taagtgaata aagagtagaa gagaaactta 180
acaaaaacta aaagtggaaa ttaaatgcac agtggaaatt aaaagagtag ggaagaagga 240
gacaaacaca caagagtttt tatactgggt cggcaacaac ccgtgcctac atccagtcctc 300
caagcgacct gtggtccttg agatttcttt tcaaaccttg taaaaatctt tntacaagca 360
aaaatccata agggatgtac ccttccttgt tctcttgaac aacct 405

<210> 3835

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3835

agctttgctg cattaagggg nnatttttatt tatatatatn cactaaaaga gtnggaatat 60
agatgtaaaa taatcaaata ttttaatttag atgtcaataa acaagaatat tattgtatcg 120
gatattactt atattagatt tgattttctt aaataacagt ttaaatttga gtattgtgga 180
taaaaaaata taattcaa at gagagatctc attaaagata atgactcaaa tacttcaaca 240
aaaattaatc atagataaaa cttatttagta cttcacacca atgtttaatg ttttggtgat 300
aaaaaaaata aaatactatt gaaaaaaaag gaattagtct ttctatttaa tagattctat 360
atgattatat ccaataataa agaatatatt ttctcacata atagtaataa agaatatatc 420
gaaaagaaa 429

<210> 3836

<211> 404

<212> DNA

<213> Glycine max

<400> 3836

tatgctgcag acatttataa tagacccctc cagcagttat taccttcaac agcagaataa 60
ttatgatctt ttaagctaca gatacaatct aggttggaga aatcatccaa attcgagatg 120
ggcaagtcct ccacaacaag aatagcatgt cctcccttc cagaatgttg ctagtccaag 180

caagccatat gttcctcctc caatagtgag gcaaagacc atccataata tgcaatttca 240
gcaagagaca agagcctcca ttcagagtct gacaaatcat atggggcaga tggctactca 300
gttgaaccaa gctcagtccc aaaattcaga caaattgttt tcacaaacta tgcagaatcc 360
gaaaaatgtg agtgccatca ccttgaggtc tggcaagcaa attg 404

<210> 3837
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3837

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agaacccttt gaggtgtatt gtgatgcac aaagatgggt ttaggttgag tgttgatgca 120
aaatggccca agtagtgcc tatgcttcta ggcaactcaa gactcatgag aggaattatc 180
ccacccatga tttggagttg gttgctgtag ttntttccct taagatgtgg aggcattacc 240
tgtttggtc caaatttgag gtgttttagt atcataagag ccttaagtac ttgttttagtc 300
agaaagagtt gaacatacat canaggagat ggtagatga tgcaatccta ccccccccc 360
ccaagggcat tggat 375

<210> 3838
<211> 393
<212> DNA
<213> Glycine max
<400> 3838

ataacttcaa atagatcatt agcagaaaag aataataatt gttcacactt cacaggaaac 60
aaaagctatg aaaaggactg aaaatttaaa cagcagaatg agtttgtacc tgtacaaact 120
tggcaaagcc agaccaaga ggggatccaa tgtacagagc cattgaagct ccatttagca 180
aggatgcgta tactagccat ggcccatca tccgtccaag attagtgggc cagcacacta 240
catcaccttt acgaacgtcc atgtggcacc atgcatctgc agcagctttt agagagtaat 300
attggtccat ggaattgctt ttggatcacc tataccacca aatgaggtac attatattag 360
cttttggtta gttcatatg gtgagtgaag tct 393

<210> 3839
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 3839

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agcttaataa atctatatat gggggataac tagcttcccg tcagtgggtac cttaaagtttc 60
atgggataat ttcttcattt ggttttgagg aaaaccccat ggatcaatgc atattccaca 120
aggtcagtgg gagtaaaata tgtttccttg ttttatatgt agatgatatt ttacttgcag 180
ccaatgatcg gggtttgcta catgagggtga aacaatttct ctctaagaat tttgacatga 240
aggatatggg tgatgcatct tatgtcatcg acattaagat tcatagagat agatctcgat 300
gtattttggg tctatcacag gaaacctata tcaacaaaat ttagagaga tttcaaata 360
tagattgttc accaagtgtt gctcccattg tgaagggtga taggtttaat ttgaaccaat 420
gt 422
  
```

<210> 3840
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3840

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ngtaatgatt ataaaattaa atgtgctaag aagaaanac gtttatacgt aaacacgaca 60
ttgaagtaac ttgggatgag tataaaattt gtgaacaaac cactttgggt aaggaaatat 120
tgtacatgtt atgatttatc atagaaaagc tctcaaagat gttaggtaca cctcagggtt 180
ttattataag aaattagaga aattgtattt tatactatca cttatttctg ataataagaa 240
taaaaaatag tataaatgta taccgtaaga tatagacatg aatggacacc gcattaatat 300
cttttatcaa atagatatct atttgattat ttcaaaaata ttattattgt aaattttagt 360
aaagtaacta ataataataa ttaggaatct catatttcta aattaatgtc taattctaca 420
t 421
  
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<210> 3841
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3841

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agcatcactt ctggcactaa attgctggga gtttgaagcc atcttctcaa tcaaatttct 120
ggcttcagca ggggtcatgt ctccaagggc tccaccactg gcagcatcta tcatacttct 180
ctccatgtta ctgagtcctt cacaaaaata ttggaggcga agctgcttag aaatctgggtg 240
gtgagggcaa ttggcacata gtttctttaa tctctcccag tattcatata agcttttctcc 300
actcagttgc ctaatgcctg aaatatcttt tctgatggtc gtggtcttgg aagcagggaa 360
atTTTTTTTct aagaatactt tcttgaggtc atcccagctc gtgatggacc ttggag 416

<210> 3842
<211> 415
<212> DNA
<213> Glycine max

<400> 3842

tctatagaag gttcatttct aattgctctt cttttgtatc acctctcaat gagctggtga 60
agaagaatgt ggcatttacc tggggtgaaa aacaagagca agcctttgct ttgctcaaag 120
aaaagcttac taaggcacct gttctagctc ttcttgatat ttctaaaatt gttgagctag 180
aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagggtggg caccctatTT 240
tttatttttag tgaaaaactt catagtgcc aaccttaacta cccacctat gataaagagc 300
tttatgcctt aataagagcc ctctgactt gggaacatta ccttgtttcc aaggaatttg 360
tcattcatag tgatcatcaa tcaacttaagt acactagagg gcaaagaaat ttaaa 415

<210> 3843
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3843

nttctcttaa tttgctttga tagaatttcc aagggttata tagaaagaaa agagattaaa 60
gccttcattt tgtactgtct tcatgcgatt cacttttctc tctccatgaa tattattttg 120
caaattacaa cgggtgaatgt gtgcgaaatt gagttgcgaa ctaagtgtct atatttcaca 180

atgatccaac gattaacgag ttcgggatcc tagttttact agacaagttt tgagtctcta 240
cgaaaaaaga gaaaactacg atgtgaatga cttttctctt agctttgaca ttttttcaca 300
atttccaacg gtgagaatgc tcggattaag ttgcgaacct ggtgctgaaa tatcacgacg 360
atccaacggt taacgagttc gagatcatca ttttac 396

<210> 3844
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3844

agcttaattg actatntat taatcattgt ctaataaaac ctgaatttta ggtagcatat 60
atcatataat tgattattta actgcatgcc ttgagtagga atttttgttg ttgttctggt 120
gtaggattat agcagcaaag tgtattttat gaagcaaacc gtgggtaatg cttgtggtac 180
aataggggtg cttcatgcac ttgggaacat aacctccgaa gtcaagcttg gtatgtttcc 240
aacaatcacg cagcctcagt taaagtntt agtatatcaa tcattaaatc tcattcagtt 300
gtgttgcttt tgttcttacc agttgaaggg tcattctttg ataagttttt taaatctact 360
gcaagcatgg atccattgca gggtatttgt ttcttcttag ccaaacctcc tctcttttct 420
ttct 424

<210> 3845
<211> 414
<212> DNA
<213> Glycine max

<400> 3845

tggttcccaa tgctctattc agactctctc ataatctgta tgtaaacctt gaatctctat 60
tagacactat gctagatggc acaccatgta atctaacaat ctactaata tacaaggagg 120
tcaacttctc caaggaaaat atgatattaa tgggaataaa gtgagcaaac ttggtcagtc 180
tatcaacaat aaccagata gaatctaaat ctctaggggt cctatgtagt cctccaacaa 240
aatccatgga aatactgtcg cactttcact ggggtatctc caagggttgt aacttcctta 300
aaggcatctg atgttctatc ttagcctttt gacagactaa acatgcatac ataaactcac 360

taacctctgt cttcatgttg ggccacaaaa acattatctt cagatcttta taca 414

<210> 3846
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3846

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gttggtgtct aatagctttg gcacttgaca cgagggtgct attgtacgaa gagagagtgg 120
gggccacaaa cactttagtt agtagtgttt atggtagggg cgatgggtcta ggggtctaagg 180
tttaagggtg atgttttact tattttaagg tttaggggtt agttagttaa tggtttagat 240
tttacgtgat tagggtttat gcatgctatt taaatgagga ttgagtgtta taggttttcc 300
cattatagga attanggttt tgtagcatt gggtttaagg cttacttatt tttgggggta 360
gggtttatgg attttatggt tagcggtttac ttattttatg aattaaagt taacatattc 420
ta 422

<210> 3847
<211> 421
<212> DNA
<213> Glycine max

<400> 3847

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atcttaagaa ggggggggttg aattaagata taacagacta ttccccaatt aaaaattcta 120
cttttaattt aacccaacaa cctatgattc cttttaaaca agaactccaa gataataatg 180
caaattaatc ttactaaata gaaataataa gcaataaaca ataaaggagt ttaagggaaa 240
agaaaatgca aactcagatt tatactgggt cggcgacacc cttgtgccta catccagtcc 300
ccaagcaacc cgcttgagag ttccactatc ttgcaaaatc cctttacaag ttctgaacca 360
cacaaggaca acccttcctt tgtgttcaaa tttctttaca acaagagacc ctcggtctct 420
t 421

<210> 3848
<211> 416

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3848

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 aagttattgt cgctttaatt ggctcagagg ttcaacattc aatttcgagc gtttcgctat 120
 attacgggac tcaatctaac atccgagtaa aaagttattg tcgcttgaat tggctcaggg 180
 cttcaacatt caattttgag cgtctcgata tatgacgaga ctcaatcaga catccgcgta 240
 aaaagctatt gtcgtttgaa ttggctcaga ggttcaacat tcaattttga gcgtctcgat 300
 atgttacggg actcaatcag acctccgagt aaaaagctat tgcgtcttg aattgctcag 360
 agattcaaca tttaaattcg agcgtctcga tatactatgg gactcaatca gacatt 416

<210> 3849
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3849

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 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
 gaagatttcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240
 gggagagagg ataacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaactcatt ggttctcttc anacctttga gctaggactc tcggataggg ctgaaaaga 419

<210> 3850
 <211> 333
 <212> DNA
 <213> Glycine max
 <400> 3850

tcccgatcac atagcttgcc tcacccatat ctttcatttc aaaggtgcta gagagaaact 60
 gcttagtctc atgaagaaga ccaggatcat tagcaagata tcataacat acataattag 120

atagaggacc ttacttccac tgaccttcaa atatatgcac cgatcaacat tgttttactt 180
 aaatgcgaag gaaacaatgg tttcattgaa cttgagatac cataggcggg agacttgctt 240
 aagactatat attgatttct tataatgtgc acattttgta tttctttgct tgaactaaga 300
 gtcccattgg ttggtgcata tgaacattct tct 333

<210> 3851
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3851

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 tgcacccgac gacttaccac tgagcaaaaa ctctattctt ctctctcttt tggaccaaag 120
 taatggcaag tctgtggggc acagtaatat tttctttccc atcaagacct ntggatgcaa 180
 cttgtgatcg tatccccata tcagctagac cttgacgggt attcaagcaa tcctttgtct 240
 tgccttgaat gttaaggagc gtcccaatca cactgtcaca aacatttttc tccacatgca 300
 ttacatcaat acaatgtatt acgtctagat cagaccagtg ctaaagatta aagtaaattg 360
 acctcttatt ccatatgcac tcttacttta ttcttctttt gggctcttcc aaatccattt 420

<210> 3852
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 3852

agcttcttat ccaaggcaat tcttgttggt gaagctcctt cttccttggc ttattcccta 60
 gtggatgggtg cctcccctat cctcttctcc tttgccttcc gctgcatctc catggtgaaa 120
 aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
 gcaagcttcc atcatgaatg aagtgaattc taatgttagt gtgttttagt ctctcatgat 240
 ggacttgatc cttggcaaaa caaatgcat ttagacagtg gcaaaaaatg atagcctttt 300
 ttttgtggaa acccaagatt gctaattaga cccttcagcc aagttcattc ctttactgg 360
 tcttccaacg ccatgtactc tacctttgta atggatacag ccaccatggg ttgaagtgta 420

gtcttcca

428

<210> 3853
 <211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3853

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 cagtgggctt tccttctgtg tccagcatct tgggatgttc ccagcctttg atgacagctt 120
 tccaggttct gctatccagt gatttgagaa aggccacat ccttgctttc cagtattcat 180
 agttgggtccc atccagaatt ggtggtctgt tcaactgtcc gccttctttc tccatgttca 240
 tcagaatcta tctccctaga tctcactcag tgatttcgag tgcttctctt gataccaatt 300
 gaaattctga tactggggac agatgtcgta caggatgtca cgacatcacg cttcagaaca 360
 tgcagattgt ctttgactgt ttgaacagat ttaa 394

<210> 3854
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3854

agcttcttag ttcatatga tgcatttggg tttnagcta cctcatgcac tcctctaattg 60
 actatggcat catttctggc gctaaactgc tgggagttgg aggcatctt ctcaattaaa 120
 tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240
 tgatggtggg ggaaactggc acatagtttc ttaaatctct ccagttactc atacaggctc 300
 tctccactga gttgtctaata acctgagata tccttctctga tggctgtggc cctggaagca 360
 gggaaaattt tttctaagaa tactctctta aggtcatccc agctcgtgat ggatcttggg 420
 gc 422

<210> 3855
 <211> 394
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3855

eggatgtgcg attgagtccc ggaatatatc gagaggctcc aaatngaaaa cggaagctca 60
tatcaaattc aaaggacaat aactttttac tcggatgtcc aatagagtcc cgtaataataa 120
tgaaacactc caaattgaaa atggaagctc gtatcaaatt caaacgacaa taacttttta 180
ctcagatctc caatagagtc ccgtaatata tcacgacgct ccaaattgaa attggaagct 240
cgtatcaaatt tcaaacgaca ttacttttta acttgatgtt ccgattgagt cccgtaatat 300
atcgcgatgc tccgaaatga aagcagaagc tctaagcaaa ttcaaacaac aataactttt 360
tattcggatg tccgaataag tcccgtata tate 394

<210> 3856

<211> 421

<212> DNA

<213> Glycine max

<400> 3856

tcattggcaaa gtatgtatgg tagaacttca ttattgttat ttattatata caaataagct 60
tggttgcaatt cttctagact tagagtgata acatgcagtc ctcttgatcc cttatctctc 120
actgtctcgt tatgccgaga ctccgaaacc acaacaagtt ttatcttttc catgtactcg 180
aaacaaaact cagtagcttc ttccgcaatg tacttttcaa caataaatgc ttcaagacgg 240
cgtagattct ttgtataccc ttttaagatc ttcatgtatc gctcaaccgg gtacatccac 300
cgcaaataaa tgggaccaca acatttaatt tccctcacca aatgaacaat taagtgaacc 360
gtgatgtcga aaaatgaagg aggaaaatac atctccaact gacacaagat aatagtagtc 420
t 421

<210> 3857

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3857

ntgaagaagc gtcaaagcag gaagtatggg tcaaggctat tgatttgaga tacagatgat 60

cgagaaaagc aacacatggg agttagtaaa tcgtcccat ggaaaagata tcattagggt 120
 taagtgggtc tataagacaa agtcaaccc tgatggcacc atacagaaac acaatgag 180
 gctagtagct aagggttact cacagcaacc cgaaattgac tacaatgaga catttgcacc 240
 agtagcttgt cttgatacca taagagctct aatagctctt gcgtcacaaa aaggatggag 300
 tatccatcaa ctagatgtca aatcagcctt ccttaacggc gtacttgaag aagagatcta 360
 tgtggagcaa ccacaaagat tcgtgtctga aggcaaagaa aacaaagt 409

<210> 3858
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3858

actatgcaga gaatatcctt ttanatttc cttatcngac ttagcatcaa attttcctaa 60
 gttatctttt ccattattca atacaaaaca ttacaacta aagatatgaa gatgtgagat 120
 gtttggtnt ctgccattga acaattcata tggagttttc tttaagatgg gtcttattaa 180
 agccctattt aaaatgtagc atgcagtgtt aacggcttca gcccaaaatt tttttggaag 240
 aggtgtatca tttaataaag ttctagcaat ctcttccaaa gatctatttt ttctttcaac 300
 aacaccattt tgttgagggg ttcttggtgc agaanaatta tgctcaatcc catgcttatt 360
 acaaaataat tcaaattctt tattttcaaa ctcaccccca tgatcactcc taat 414

<210> 3859
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 3859

taaccagct ggccttgaat cagatatctg tacctgtcgc aagggtttgc ggattgtgct 60
 cctctgctga ccaccatata gacctttgcc ctttcatgca gcaacctgga gcaattgagc 120
 agcctgaagc ttatgctgca aatatttaca atagacctcc tcaacctcaa cagcaaaatc 180
 aaccacagca gaacaattat gacctttcca gcaatagata caacctgga tggaggaatc 240
 accctaacct caaatggtcc agccctcagc aacaacaaca gcagcctgct ctttcttcc 300
 aaaatgttgt tggccaagc agaccatata t 331

<210> 3860
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3860

agctntaagc gttgtccatt gtcgttctct ttcttctcaa agntctcttc tctagggtcc 60
 accaattcta ctgctccgag aggtctgact tctttgatta tgaacggccc tgaccatttg 120
 gacttttagct tacctgggaa tagccttagc cttgagttaa aaagtagtac atattgcctt 180
 ggctggaatt ctttcctttg tagcttcttg tcatgatatg ccttcatctt ttgctttag 240
 attctggatg actcatagga attcagtctc atttcttcca attccagtaa ctgtagcttc 300
 ctcttttctc tgcatgcact atcatcgaaa ttaagcaatt tgagagccca atatgctttg 360
 tgctccaact ccactggtaa gtgacatgcc tttccatata ctagctgaaa t 411

<210> 3861
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 3861

taacaaaagg catgcgaaat ggggtggaatt cctagttttc tatecttatg ttatcaaaca 60
 taaaaagggg aaaggtcata ttgtagccga tgctctttct cggcgtcatg cattactttc 120
 tatgcttgaa acaaaattga ttggtcttga atgtctgaaa agcatgtatg aaaatgatga 180
 aacttttgga gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt 300
 tcttgtttgt gaagcacatg aaagaggttt aatggggcat tttgggggtcc aaaagactct 360
 ataaacatta caagaacatt tttatt 386

<210> 3862
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3862

agcttttgaa agcgttngtt tttattttct cgctaagcca aaagggggct ccaactcattc 60
aaaggcaaca atctaaaaac ctgagaagaa gttgttgaaa agttttctaaa gaaatacttc 120
ccagagtcca agactgcaga agggaaagct gcactctctt catttcatca gattcctgat 180
gaatttctga gtgaagcatt ggagagattc agaggcttgt taagaagaac tcccactcat 240
gggttttccg agccaatcca attgaatatg tttatagatg ggctgagacc acaaaccaag 300
caactgttag atgcttctac aaggggaaag ataaaattga agaccccgga agaagctaca 360
gagctgattg agaacatgtc agccaatgat catgccattc tacgagacag acacccat 418

<210> 3863
<211> 411
<212> DNA
<213> Glycine max

<400> 3863
ctaaactttg tacaagaatg aagctctgta taccacttgt tagacaagtg gcctcagata 60
tcttaagaag ggggggggtg aattaagata ttccaaactt ttctcctaataaaaaatcta 120
tcttactttt tacttaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
aatgaagcaa cttgaatata aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctcagtttta tactggttcg gccacaccct tgtgcctacg tccagtcccc 300
aagcaaccg cttgagagtt ccactaactt gtaaattcct tttacaagtt ctaaacacac 360
aaggacaacc cttcctttgt gtttagagat tctttacaac aagaaactta c 411

<210> 3864
<211> 422
<212> DNA
<213> Glycine max

<400> 3864
tgaaggtaaa ctagatgcct tggttaactt ggtaacttat ctgaccatga atcaaaaatc 60
tgcacctgtc gccagactct gtgatttatg ctctctgtc gaccactaca tagacctttg 120
cccttctgtg caacaatctg aagcaattga acagcctaaa gcttatgctg caaacatcta 180
caacagacct cctcaacctc agcagcaaaa tcagccacaa cgaaacaatt atgacctctc 240
cagcaacagg tacaatctcg ggtggaggaa tcatcctaac cttagatggc cgaatccttc 300

acaacagcag caacaacaac aacagcctta ttttcagaat gctgctggtc caagcaaacc 360
 atacgttctt ccaccaatcc aacagcaaca acagcaacag cccagaaac aacaaacagt 420
 tg 422

<210> 3865
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 3865

tgccgccacg gagttttccg actatgctct tgtgttttgt atcaagctac aaaaggagag 60
 agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
 aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtggag caacaattaa aaaggaaggg agt 393

<210> 3866
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 3866

gtgagcaaat tcaaacgaca ataactttgt actcggaatt ctgattgagt cccgtaatat 60
 atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa ttcaaacgac aataactttt 120
 tactcggatg tcagattgag tcccgtata tatcgagacg ctcgaaatgg aataccgaag 180
 ctctgaacaa attcaaacga caataaattt ttactcggat gtctgattga gtcccgtaat 240
 atatcgagac gctcgaaatt gaataccgaa gctctgagca aattcaaacg acaatcactt 300
 ttactcggga tgtctgattg aatcccgtaa tatatcgaga cgctcgaaat tgaatatcga 360
 agctctgagc aaattcaaac gacaatatac ttttactccg atgtctgatt gagtcccgga 420
 atat 424

<210> 3867
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 3867

agcttctaca ttcaaattcg agccttttta tatattacgg gactcaatcg gacatccgag 60
 taaaaagtta ttgtagtttg aatttgctca aggcttcggt attccatttc gagcgtctcg 120
 atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgtcgttt gaatttgctc 180
 agagcttcgg tattccattt cgagcatctc gatatattac gggactcaat cagacatcgg 240
 agtaaaaagt tattgtagtt tgaatttgct cagggttcggt gtattccatt tcgagcgtct 300
 cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttggaattgc 360
 tcagagcttc tacattaatt tcgagctttt cgatatatta cgggactcaa tcagacatcc 420
 gagt 424

<210> 3868
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3868

tttaaaanaa tgaagataaa aataaaatag tgagtatatt attaatttct aaattattta 60
 atacaaaata ttcaaaatat aaaataaaaag tttcttgccc gtacaacaat tttattttaac 120
 atattaaaat aattattaaa ataaaagttt cactattttt ctcatattaa aataattatt 180
 ttaacatatt aaaataatta ctaatatact gaagaaagag taatagagcc acacttcaaa 240
 tcatttatgt atgttcataa tctatttaag gcaaaaattt ataataaatc ttttcttttg 300
 tgggactcaa tcctaaatta tttaaaatat aaaaaaagat aacatgttat tcaattgaca 360
 ctactagaaa aagctgtttt ttcttttatt aattaattaa 400

<210> 3869
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 3869

taaagttatt ggagggagaa taaaacaaat cattttcttt' tgtaccctcc aagtaacgaa 60
gaattctttt tgcggctttt atatgagtag aggtaggagc cttcataaag cgacacacaa 120
ctctcaccgc atatagaata tcgggccttg tattgggttag atacctcaaa ctccccacaa 180
gactcttgaa gatcgtgggg tctaccttct ctccttcac,aaactttgat aacttcaagc 240
caccttccat aggtgtgttc acgggattgc aatcaagcat attaaatttc ttcaacactt 300
attttgtgta gctttcttgt gagacaaaga ttccat 336

<210> 3870
<211> 365
<212> DNA
<213> Glycine max

<400> 3870

agctataata gcaatctttc tttttgttga caagtttcag tagtccagct gtcttgatga 60
ggtacatgat ctccttgcaa tccaaggcat ttcttcccag ttctctttct aaagcaagcc 120
ttcgttgata taaaaatttc cacctttcaa cattgccaat ggagtggaaa gaaatgttgt 180
ccaatggagc atcagggaca tttccaggca cttttttccc tgatttcttg gcccgcttga 240
tgtcgagaac atctggctcg acattatcat cagaatcaga tgaggaaatt tctttcctct 300
tcttggacgg gattgcaact atgctccatc tggatgcggt aagagtgagt ggagtgtctt 360
tcttc 365

<210> 3871
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3871

agctttttat tggaancttg tatttatgac aacactctga tttctgaaat ttttgggata 60
aaaatggtta ttgactagtc ctttttccat gacttaacca aattaccagc tgacggtgta 120
ccatttgaag gtacagtga tgacgactgg aaatttgatt tctctgccc tgatgcccgc 180
cagttggttt gcaccaacaa tgcggatatg accggacgtc ttcttgccgg gtcattggct 240
tttgaaagcc gcaccttca ctatttaatt gtacgtatct tgcttccacg gtcttccaac 300
cttgcccagg tttctgagga agatctaatt atcatgtggg cttttcatac agggcgctcaa 360

cttgactggg cacacttagt cagatatcgc atg

393

<210> 3872
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3872

gctggactcg ttgtgcagtg atttccttgg caatntgatg ctcagaaaca tcaatatcta 60
ttactccatc agaggggtctg cccagacatt tgttgatcac agccggtgag aatctaatac 120
actttcctct gacaaacact ctttgataat catcactctt tctgtttgat atgtcagagg 180
gaatgttgac aatgaattcc ctgactaagc cttcatagca ctctcccaac ttgctgacag 240
tcttcagcag tccagcagcc ttgatgagat ccacgatctc cttgcaatcc atggcagctc 300
ttcccagatc tctttccaaa gcaagtctac gtgatacac atatttccac ttttcaacat 360
tgccaatgga gtggaaagag atgttgtcca at 392

<210> 3873
<211> 437
<212> DNA
<213> Glycine max

<400> 3873

agcttcttca catagtccgc ctttgcttga ccttctttat gcttaaaaac agaaacatta 60
ggcataggca aaagatcaag aggagttagt ggggttaaac cataaacaac ttcaaaagga 120
gaacaattag tgggtgctatg aacagctcta ttgtaagcaa attcaacatg gggtaaacia 180
gcttcccaag tttttaagtt cttcctcaaa actgtcctaa gcaaagttcc caaagtccta 240
ttaacaactt ccgtttgccc atcggtttgt gggtgacaag tggttgaaaa taacaattta 300
gtgccaact tgctccacaa agtcctccaa aaatggctta cgaacttaga gtccctatca 360
ctaacaatgc tccttgcat accatggagt ctcacaatct ccttgaaaaa caaatcagcc 420
acatgggaag catcatc 437

<210> 3874
<211> 322
<212> DNA

<213> Glycine max

<400> 3874

ctatgctctt gtgtggcgga acaatctaca aaatgttaga gcaagaaatg aagagccaat 60
ggttgataca tggacggaga tgaacaatat catgaggaag cggtatgtgc cggctagtta 120
ctcaatggac ttgaaattca agtctcaaact actaacccaa agcaacaatg ggggttgagga 180
gtatttcaag gaaatggatg tgctcatgat tcatgcatat attgaagaag atgatgaggt 240
tactatggct cgattttctta atggctcgac taatgatatc cgtgatattg ttgagcttga 300
cgagtttggt gaaatggatg at 322

<210> 3875

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3875

ngccgccacg gagtnttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcttc acaaagcaat 360
ccaagtggag caacaattaa aaaggaaggg agtggctaag aggagttnta ccaactttgg 420
ttcttctagt tggaaagaca aaggtaagaa agat 454

<210> 3876

<211> 465

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3876

cttcctacga aaactgtcta tgctccacat agttagggcc actagacgca ttctgcatct 60
ctcangcatt gaacatatgt tatcccctag taaattctag ggtagagtgt ttagttttct 120

actaacctg attggaaaag aaaacaaagg ataagcatta tggtttccta aaactaagta 180
tatttataaa aactatatt acgaaatgga gcattccaaa tgcttttttt aaacacaatc 240
tggttatcca atgctcaa at gctcaagatt aggattagg gtgttcatac tcggtttgat 300
tcggttattc attaaaaagt catctaaacc aaacttataa acaatatgcg attcaatttg 360
gttcaatttt cattaaaaat ataactctgaa tcaatccaaa ccaatattgt acggtttgat 420
ttttgcaatg tttactaaaa cattatttca ttaaatgnta tatac 465

<210> 3877
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3877

agcttgcttc tcctgaatat caaattcatt ttaggaaaaa gaattggaca aattangatt 60
atttagtagg gactaactg aaattaaatt gaatttgatt ttaggaatgt aaccaacatt 120
atgcaagact aagggtgttg ttaagcaaac tgaaccaatg gcaagaatgg gtataatgtc 180
actattagga agagttacag ttttatcaaa aacaagctga tgagatctaa aattatgaag 240
agagcaagta atatgaatgc ttgcactaga atctaaaagt caacaatcat gaagaaaatt 300
ggaagtggaa gtagaaagaa tcataccact tgaggaagaa aactgtgag gaatgacaac 360
attggtagca tgactttgta aaagattcat caattgacta tattgttgag cagtaagttg 420
aaactatgaa ccaagtcaa cagaag 446

<210> 3878
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3878

tggacaatgg cacggaaatc ttgctaaaat cctagataaa tctcttgtaa aacttggatg 60
tcgcagaana gaacgtactt cccgcacaga tgcgtcgtaa ggaagagaag taataacatc 120
gatctttgcc ttatcgacct caatacctct actagagact gaatgcccta agactatacc 180
tccatggacc ataaaatgac atttttcaaa gttagaaca aggttagtct cagcatcggt 240

caagaactct acagaggtta tccaaacatg catcanagga agaaccataa acaatgaaat 300
catccataaa caccttcata caactctata ataaatcaga aaagatactc accatgcacc 360
tttggaaagt gccaggagcg ttgcatatgc canagggcat cctgggtgtag gcaaattggga 420
taaattgatct cggcaactag tagcttcata acctctttct tcatcaca 468

<210> 3879
<211> 440
<212> DNA
<213> Glycine max

<400> 3879

tcatgatgat gaactaagca attatgatga tgccataaagc ccaagtgatt gattcaatat 60
tgattcaaga cttcaagatc aagcatcaag aatccaatcc aagattcaag attcaggaga 120
agaaatcaag aagcaacaag tcaagacttc atattggata agtattaaaa gaatttttca 180
aaaaccaaatt agcacagttt tgttttacga aagaattttc tctaattctc taaagttaca 240
gagtgtattac tctctggtaa tcgattacca gttaacagta atcgattacc agtgaccaga 300
ttggtttttca aaatgctttc aaatgatttg tgacgttcca aaatgatttt caaatagtgt 360
aatcaattac actatattag taatcgatta caagtgaatc tgaacgttgg aattcatatc 420
caattgtgaa gagtcacaac 440

<210> 3880
<211> 450
<212> DNA
<213> Glycine max

<400> 3880

tgcttgtcca cctgaggggt ccaatcttgc tcgtagaata taacctataa aatgccatgc 60
aatagtaaatt tctcaaaata tgttttaaac agagtacact tactctaatt gttgtgatac 120
attccataat tagcacagaa tttattttgt aattagtaca gatttgatta gtacagattt 180
tgttccattg tattttgatt tgtactgatt ttgtttcatt gtatgtcttt ccttaattaa 240
gtcgctagca gcttataaat aagtcattga ttactctgt gaaatacaga attataataa 300
tatttatatt attatctttc aagtataata cttgcagggtg ataacataaa cttacaataa 360
tttaaccacac ctgttaaaga aatggaagtg ctattccagc ggattttatg attaaactaa 420

<210> 3881
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3881

nggtcgtgta ttgagcacta gatatgaggg aaccccaact gcctacatac taattggcaa 60
 ttgacttttc ttgtggcttt gctgaaagca tattatataa cttttatggt tcgtaatgca 120
 tgatgtatca aactatatat gatgtatcaa actagtttat aaagtacatt atcatatgac 180
 tgaaaagctg cttataatga atatttttat gcatggccac ttgtttataa atatacataa 240
 taccaaagaa agaaacacca cgtgcatcat gcttcttctt gcttataatc aatattgatt 300
 tgcagatatt gggagaatga gaagggtcgg ttagattaca ggccagtgc catgaatacg 360
 ttggatgatg aggtggaatc attccctcct aaagctcgtg tttattagta ttcttgtaaa 420
 ttattactat ggatgatcta ta 442

<210> 3882
 <211> 417
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3882

agctntataa attcatcatt gttaatatct tctacacaaa aacttaaagt atgttaattt 60
 aacaagtatt tgctcaaaaa ggaaaaatta taatagaaaa attacaaatt cctctataat 120
 tgaaccccca aaatatactc ataattagca tttataaggt ggattgtgat tttagaagat 180
 gtaaagcctt tttgttcaac aacaaagtta tcatttgaag tataagctta acaaaaattga 240
 taatagattt ttgtaagaca aattcatatg atagaaatag attttgcaaa acaaaaataag 300
 tttttcaaaa attaaattaa attcaaacc taagccaatt taaaacagaa gattaaccag 360
 aagaatataa gacacaaaga tttatattgg tttgtgccta ccactaagaa tacattc 417

<210> 3883
 <211> 425
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3883

agctntactg cctgagaatt gcggtgtcct agcctattgt gcaaattgat agagttaggc 60
acagtgttat tacaagcaac agaagaaaca gtgtttatac aagctggaga agacagctga 120
gaagaattga agattgggaa actgatacga tccatcaggt ccaacatctc cttgtagaag 180
gatcatattg gaatcctgng atttaacaaa gcaatgatta gcatggaatt caaagaaaac 240
atgattatct ttggcaaata tacttacact aatcagattc ttggtgattt gaggaacaag 300
aagcatgctt ttaagaataa gtttgacatt aggactgaaa ggagaaacaa aattggagtg 360
accagacgct gagatattca gacctttgtc attaccatga agatctgatc ttcaaaacga 420
gaagt 425

<210> 3884

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3884

agctntacaa gcccttcgac cttggcttgg ttagctttca cctcctcttc actaaatgta 60
gcattgcctt tggtgaaaaa ttggacatgt accttcctaa tggatcctcc atttgagcct 120
tccaccaatt tgctttcaaa tgaaaccttc tccaatgtgt cagacaaggc agtgcccccg 180
attatgctga agttatatac ataggetgcc tcatcaattg catcaactct gtgcagcaca 240
tactttgttt tgtcacctgc atatgcaccc attaattcat ctaattaaaa tcatgactaa 300
tttcattaat ttgtactatg tattataatt aagggtttta atattggtcg caatagtatt 360
attgcgattt atcagtttgt tgatattgca ataaagtaca gacaaatatg actgatgcaa 420
tc 422

<210> 3885

<211> 408

<212> DNA

<213> Glycine max

<400> 3885

tcaacattca atttgagcgg ttgatatat tacgatactc aatcagacat ccgagtaaag 60
 agttattgtc gtttgaattt gctcagagct tcgacattca agtccgagcg tctcgatata 120
 ttacgggact caatcagaca tctgagtaaa aagttattgt cgtttgaatt tgctcagagc 180
 tttggtattc catttcgagc gtctcgacat attacgggac tcaatcagac atccgagtaa 240
 aaaagtgatt gtcgtttgaa tttgctcata gcttcaacat tgaattctga gcgttttgat 300
 atattacgag actcaatcgg acatccgagt aaaaagttat tgcggttga atttgctcag 360
 agcttcgaca ttcaagttcg agcgtctcga tatattacgg gactcaat 408

<210> 3886
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3886

agctntgagc aaattcaaac gacaataagt ttttactcgg atgtctgatt gagtcccgaa 60
 gtatatcgag acgctagaaa ttgaataccg aagctctgag aaaattcaaa cgataataac 120
 tttttactca gatgtctgat tgagtcccgat aatatgtcga gacgctcgaa attgaatacc 180
 gaagctctga gcaaattcaa acgacaataa ctntttactc ggatgtctga ctgactcccg 240
 taacatattg agacgctcga aattgattat cgaagctctg agcaaattca aacgacaata 300
 actttttact cggatgtctg attgaatccc gtaatatatc gagatgctcg aaatggaata 360
 ccgaagctct gagccaattc caa 383

<210> 3887
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3887

tatacagcct angatgtggt tntgtgacta aattcaattt agacacaagt cttgcacttg 60
 ccacattggt acaactccct ccatcaatga tcaccatgca aactttgccca ttgatcaatc 120
 atctagtgtg gaaaatgttt tctctttgag tttctccaa agacttcaat tgatggccaa 180
 gtaaccgcct aatcatcaac aattcttctt ctagtgtttt ctccacttcc ttctcatcat 240

cctcactctc ttctcccttt tcaacttcgg actcactaat gtactctcca tctctaagaa 300
 atcatggctt tcttgtagg gcattcatat gcataatgtc ccaagccttg gcactgaaaa 360
 cacttcacat cccaactctt ttttgaagac tgttcttggga attttggagg agttttcgat 420
 ggtatagggtg ttgca 435

<210> 3888
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3888

agcttcgcgg ngtcgtgcmc acatgcatgc gaaaacctaa tcaaaaaagc tttatatattt 60
 ttaaaaaatg aacaaaggcg gttttctatt tacaccggtt gtacaaataa gtctacaaa 120
 gacgggtctc gaagaccgcc gtaattatct taccactatt tacaaaaatg tctactgaggg 180
 acattctaag acggttcctg caaactgcct tagaatgtgc gtcctaaaaa cagctccttt 240
 tagtagtggc catgtcctat ctggctgcat catgcaaagc aagaatctga gtgtctcact 300
 agagagatct caacaccttt aggggtaccac aagtcgacat gtaaggttcc tctaagatac 360
 ttcatag 367

<210> 3889
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3889

ggtaatagtc atctacatat gggtcattac tatgagtcac agcatgttgc attctgagaa 60
 tgctttctat tgcactactt gtcatatact tggaacgaaa ctgaaatgaa ccactgtcac 120
 tctcttggct accggcatca gaaccatgta aggaaaaacg aagactatgt ttacctttat 180
 gaagtgattt tgatctatga tctctaccat cggcgattcc atgcatatgt tcatatttgc 240
 taattacaga tgagccagag gaagggtggg gattgaataa atgggactgg aagccagata 300
 agtagcctgc agatcgctga ccaggatgat gcagtctatg ctgctgctgt tgtaatcgag 360
 ccatcaagtg atgagatacc gatccattat gaagggtgtaa ttgttgctgt aacatattat 420

taacgagatn tgaatgatct ccatgatata acc

453

<210> 3890
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3890

tgcctagccc ctngatatat tcgagggact catgggtcact atgaatgaca aaggccttgt 60
gataaaggta gtgacgccat gtcacaaag cccgcactaa ggcatacaac tccttatgat 120
aagttgaata gctaacggta ggaccactta actcttcact aaaataagca attggatggc 180
cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240
atTTTTgaaa gtttggcaac gcaagtatgg gggcattagt tagctcttgc ttaagaacat 300
tgaaagcttg ttcttgtttc tctcccatc tgaaaccaac attcttcttg agcacttcat 360
tgagaggtgc tgtcaaatgt gtaaaaatcc ttcacacatc gtctataaca acttgataag 420
ccatgagaac tcctcacctc ggtcacagac tt 452

<210> 3891
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3891

agcttganat tgatcaacag atgctctcga gaaattcaaa tggtcataat tggttacacg 60
gaagtccgat tcatgcgcat aatatgccga gacgtcaca aatgagcaac ggaagctctc 120
gagaaattca aatggtcata acatatcaca cggaggtccg attccggcgg atagtatatc 180
gagaagctcg gaattgcacg acgaaagctc tcgagaaatt caaatgggtca taacttttaa 240
aacggaagta agattcaggt gcataatata tccagaaagt tgaaattgaa caacggaagc 300
tgtcgatata ttcaaatggt cataacttat cacacggaag atcgattcag gcgcataata 360
tatcgagacg ctcgaaactg aacaacggaa gctctcgaga aattcanatg gtaataactt 420
ttcaaacgga agtctga 437

<210> 3892

<211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3892

ggcgccaatc taacaacttc ctttaggctt catctagtta aatactaaca catattagga 60
 tagcagttat tgtctcaata attctataaa ctacaactaa gcaataagaa gagtgtgctt 120
 gatatatata attaatttta acgtgtccaa ccaaataata agtagtccaa gcttcggttg 180
 gacatgtatt catagatcaa ctttttttct tcttctatgc agcaacctac aagctntaca 240
 agattagggt gccgaagttt gacaattagt gccacttcat ttttgaactc atccaaccct 300
 tgtccttgta acatcccaat ttttgtaatc tatattaaaa aggagtgtta ttataaata 360
 aatagagttt tagaaaaatg atgagattct ataaataaat aaataaggcg atataattat 420
 taattaagat aatgatttga gagagaataa 450

<210> 3893
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3893

tctaaactnt atacaagaat gaagctctga taccactttn tagacaagtg gcctcagaaa 60
 tcttaagaag ggggggttgaa ttaagatatt gcaaactatt cccccaatta aaattctatt 120
 tcactttcaa tgcaagttac aaattccctt aaaaataaac tcttaaataa tgattcaaat 180
 agaacaatct gaatataaat ataaagcaat aataaataaa agattttaag ggaagagaaa 240
 gtgcaaactc ggatttatac tggttcggcc acacctttgt gcctacgttt agtccccaag 300
 caaccgctt gagagttcca ctatcttgta aaatcctttt acaagttctg aacacacaag 360
 gacaatcctt cctttgtggt cataattctt ttacaacaag agaccctcgg tctctcaatc 420
 ccctttgaga atttagaaag aagagaagaa tgaatctctc ttg 463

<210> 3894
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3894

tataaaacta agcttaaggc aatccttctc agttgatgtc cacttctaca tctattccat 60
atgctgagtt tcctacttca aatgctactg tcaataatac ttctaataatt gcttcaaatt 120
ctgatgttac ctcttccagt agtgctaate tttggcatgc tangttaggt catcctaatt 180
agcatgtaat gaaaattatt ctgcaatagt gtaatatctc tcaactgaat aaaaacatca 240
cagagttttg ttctctttat tgtatgggta aagctcatag gttaccctct cacgggtcaa 300
cttctgttta ttcaccttta gaattcattt tcaactgacct atggngaccc tcccatgtta 360
cctcttatgt tggctataca tattatgttt ccttcattga tgctttctct angataaat 420
ggatatttcc tataaagtc 439

<210> 3895
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3895

gggtcttaat tataaaaaga tagatgcttg tccaaaacac tgcagttnng tattgggaga 60
tgatgaanaa agtttgatg cttgtaagca ttgtggtaca tctagatgga aaccaacaa 120
gaagaagaaa atagctgcaa aggtntacg ttactttcca ttgaaaccaa gattgcaaag 180
attgttcaca tgtcgtgaaga ctgcaaaaga tatgagatgg catgttttgg aagacaataa 240
agatggggtg taaggcatcc aagagatgga gaggcattga agacantttg attaattccat 300
cctgagtttt cttcagatcc tcgaaatggt cgtttaggcc ttgctactga tggttntaat 360
cctgctagga ccttgagttc tacctatagc atctggctna gtttcttaat tccatataat 420
cttcacctt ggatatgtat gaaccaca 448

<210> 3896
<211> 434
<212> DNA
<213> Glycine max

<400> 3896

agcttggtta atgggaaggc cagatatggg tggagtgaca aaagttatag ttgcttctt 60

aaagtagtgc acgatatgct tctagaggaa aacaagttgc ctaaaagtta ctatcaggcc 120
gagaagatac tgtatagaca tgaatttcaa gaaatgccca agtgccctag gtgtggggta 180
tcacgataca aagtgaagga tgatgcgag tatattagtc atgaaaactc aaacaagggc 240
ccccagtgga aggtgttgtt gtatcttccc ataattccaa ggtttaagca tatgtttgct 300
aatagagacg atgtaaaaga ccttacatgg catgcagatg gaagaaactg cgatggaatg 360
ctccatcatc cggctgattc ctcccactgg aagaagattg atcgtttgta tccagatttc 420
ggcatagacg caag 434

<210> 3897
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3897

agcttgcctt ccaagaatga tattgcggtt atcatgtaca caagtggtag tacaggctctg 60
ccaaagggtt gtttcttcgt caagttttgt taaagggtgc ctttctctgtg tgtctgtgaa 120
tgtataatct cttattcata tttgcgattt gatgcaaagt gcttttgtcc acagtcatgc 180
ttgtgaataa tgattttggg tgataaaata tcaacaagaa ccatatcaag acattgtatt 240
aatataatga aaattttctt gtctgcaaca ttgagaacca ataggatctc cctcagctca 300
gttctatgat tccctttgat ttgacagggt gttatgatta ctcatggaaa cattgtagca 360
acaacagcag cagttatgac aattattcca aatcttggtg gcaaggatgt gtacatggcc 420
tacttgcccc tt 432

<210> 3898
<211> 416
<212> DNA
<213> Glycine max
<400> 3898

tccattgttc aatttcgagt gtctcgatat attatgcgcc tgaatcggac ctccgaatga 60
aaagttatga accattgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120
atattatgcg cctgaatcgg acctccgagt gaaaagttat gaaccattga atttctcgag 180
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctccga 240

gtgaaaagtt atgaccatth gaattttctca agagcttccg ttgttcaatt ttgagcgtct 300
 ctaactgtga tgcgcctaaa tcagacattc gagttgaaaa gtatgaccat ttgattttctc 360
 gagagctttc gatgttcaat tttgagcgtc tcgatatatt atgcgcctga atctga 416

<210> 3899
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3899

agcttcagtg gcttagtgaa gatgaagagg taaaagtgac tcaacagggt gaggtgtgtc 60
 tcaccattgg gagatataat gacaagggtc tgtgtgatgt ggtcccaatg gaagcgaccc 120
 atgtgctgtt aggaagatcg tggcagtatg ataccaaggc agtgcattgat ggcttcacca 180
 acaacatctc tttcaagcaa gctgacaaga agattgttct caaaccgta tctcctcaag 240
 aggtttgtga ggatcagata aaaatgagag aaaagaaaaa gagtgagaca cttgagagga 300
 aaaagagtga gacacttgag aaggaaaagt gaggaagaa aaagagtga acacttgaga 360
 gggaaaagag agaaaacaaa aagagtgaac cacttgaggg caaacagctn tatttagcaa 420
 caaaaaggga ggtgaggagg gtgctttg 448

<210> 3900
 <211> 319
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3900

agcttccaga tccatttcag gctgcgctag catcagcact ggcattatct gttggcgttt 60
 tggcgccacc gatagctgct gtgtttataa ggaatcacia gattagaatg ggagttgttg 120
 ctgctgcggt tagcttggca ttgttggtgt ttggaggagt aggggcagtt cttggaaaaa 180
 ctccggtgac aaggctctgt cctatgggtc tggttggagg ttgcatggct atggacataa 240
 cattnggcct caccaaattg atcggtctgt ttgatctatg aatgtgattg tttactagtc 300
 attcaagtac actcccata 319

<210> 3901
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3901

tggttaaccat ttcaagcaac tgcattgagag tgagcacacg anaatgatga accagataga 60
 gtctgctagg gggagcagga ggggtgaagtt ggtggccaag tattctatga aaatggaaaa 120
 gtataagaag gctgcaagtg atattctcac tcccaaagtg gggtagcggtt tggcggatga 180
 gctcaaacgg gctgggttttt ggggttcgaac agtgtcggat aagccacaag ctgcagatca 240
 agcactgcan agccacattg tggatatcat ggatcatang cgggttgagt gtgtggctct 300
 tgtgtctgat gattcctgat ttgttgatgt gataaacgaa gcaaagatgc gatgtctgaa 360
 gacgggtgtc attggggata ttgatgaacg tttcttgaag aggactgctg atactgcatt 420
 ntcttgggag gaaattctga tg 442

<210> 3902
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3902

agcttctccc ataagttaaa attagctttc ttaggagtta aataagagat tttatatata 60
 ttagtttatg gataaactaa ttttaactta tgagggaaga ttaatccatt ttatctttct 120
 attttgttat tttataagtg ctcatcgca agcttaccba aacagagcca tatctaaaat 180
 ctaatgcatt ctctttgaca tgtntaatct caacttctgg ctcaattgcy tttctcaatt 240
 tttgcagtgt agctcatcca tacctgcttg ccgataatcg ccattaccct ttttatcttt 300
 ggaggaaagt tatcatggct cactggccaa ttaaatatct tttagtccca gtttatatat 360
 gctcatggct ctctatgatc cacatgttgg gttagtacat agacatacta tgcattcgtg 420
 tttgattcaa ctgcttggg gattat 446

<210> 3903
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 3903

ttcttttgagc aaagcaaagg cttgctcttg tttttcatcc caggtaaag ccacattctt 60
cttcaccaac tcattgagag gtgatgcaat tgtagagaaa gtatgaacga accttctata 120
gaagcttgct aacccatgga agctccta atctcctaca ctatttgggg tgggccattc 180
ttggatggcc ttgattttct cagggtccac ttggatccca tttctaccaa ctacaaaacc 240
taagaaaact atattatcta cacaaaagtt gcatttctct atatttgc atagagggtgtt 300
tttcctaagg attgaaagaa cttgcctgag atgtcctaag tgatcatcta ggctcctact 360
gtacactaaa atatcatcaa aataaacaac tacaaatcta cctatgaaat cccttaaaac 420
attatgcata agcctcata 439

<210> 3904

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3904

ntacaagaga ttctaacaat gtcgtgaaat ccctgtttat gcacctctng ccagcatttt 60
tctccagatc ccatattctc atgacctcat tcttcaagtc cagttgggca ttaagagaga 120
tgagatgatt ggaacccttg ccatctttgg tgtccaacct ctcttagat tacttagggc 180
acaaaccgca tcccttgga gtcctgcttt tatgtacaaa ttggccgcaa tagaataagt 240
attccagtcc atgacaatgt ttggctgagt ctccatctct ttcaatactc tttccactcc 300
accaaaatca gacctcacac cataagaaat tatacagatc ctggtactga agttgtctgg 360
caagacttgt gtttgtttca 380

<210> 3905

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3905

cttcctaata taanaattct aatttgattn taaccanaa cccatgattc ctttcaaat 60
gaattcctaa ataattatgc aaattaaact tactgaatag aagcaataag caataataaa 120

taaaagagtt taaggaaaga gaaaacgcaa actcagattt atactagttc gaccacaccc 180
 ttgtccttac gtccagtccc caagcaaccc acttgagagt tccactatct tgcaaaagcc 240
 ctctacaagt tctgaaccac acaaggacaa ccttccttt gtgttcagat tactttacaa 300
 caagagaccc tcggtctctt aatccctttt cagaaataag atgaagagaa gaagaaatct 360
 ctcttgaaag agatagattg aacaatggaa cactcaaaat aattccttat tgaattgaag 420
 tgtattggca aggaattt 438

<210> 3906
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3906

caatcactac gcatagctcc aaactcgaag gtggaggaca catgaacgaa aacacaattc 60
 atggggctcc gaaaaagggg ttgagaatgg agaattacac taagcaatca ctactcatag 120
 ctccaaactt gaatgtggag gacacatgaa cgataacgca attcatgggg ctccgacaag 180
 aatgagaatg gagaattgca ctacgcaatc actacgcata gtcctaaacg cgaaggtgga 240
 ggacacatga atgaaaacgc aattcatggg gctccgaaaa gattgagaat ggagaattgc 300
 actaagcaat cactacgcat agctncatac tcgaaggtgg aggacacatg aatgaaaacg 360
 caattcatgc ggcttcgaaa agattcgaat ggagaattga ctaagcaatc actacgcata 420
 gc 422

<210> 3907
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 3907

cgacaatcac tcttttactc tgacgtctga ttgagtcctc gaatatgtct agacgctcga 60
 acttgaatac cgaagctctg agcacattcg aacgacaata actttttact cggatgtctg 120
 actgaatccc gtaatatac aagacgctcg aaattgatta tcaaagcttt gagcaaattc 180
 aatcgacata taacttctac tcggatgtcc gattgaatcc cgtatatatt gagatgctcg 240

aaatcgaata ctcaacctct gatcaaattc caacgacaat tacttt

286

<210> 3908
<211> 412
<212> DNA
<213> Glycine max

<400> 3908

tcagcttgat cttctcaata taggacatgc gtgatggccg ttgacactat aaccacttat 60
agtgccatat gttggatagt cattaatggg acaaaaaacc attgcacgca acctaaaggt 120
atgctggaga ttcccatccc acacatctac cccatcttcc cacaatgtgg tcaagtcttc 180
gatcaacgga gtcagataca cgcttatatt gatgacgaca tgaccaagag catgggcaat 240
gatccacttg taggacttgg atgacctatg acaatggcta gagcaaggaa agccaaggaa 300
gctcttcaaa aagtgtgtgc catactatct gaatacaagc ccaagtttca aggagaaaag 360
accaaggttg tgagttgatt atggcccata tggaggagga ctaaagact cc 412

<210> 3909
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3909

ctgttgaatt acctttctag ttggaaagtc agacgctata gaacctaaga taaccagttt 60
ggttgacacc attactcttg tgtttaaaac atttgtattt tgcacagatg aaaattgaac 120
cttcttttct ctaggtcaag tatctntaat gccatggttg gaattgcact aagtgccttc 180
tttgtttaagc tagtttcgtg gtatgacaat gagtgaggat acactaatgt gtgcantttg 240
tgtatgtaga gtgcaaaaat ntctgttcat gcaaaccctt aattgataac tttgaatgg 300
ttttgttgca gcaaccgagt attggacctt atagagcaca tggcattggg tggagctcan 360
aatggaacac cattagtgtg tg 382

<210> 3910
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3910

caagctctat cctatcttgc aattnccttt gaactatttc caccttctact tctccttgta 60
tactcttttac catcattgga ggctttcttt cataaactac ctcaaagggc gtaatgcta 120
ttgaatcttg ataggtggta ttgaaccaag attcagccca cggaagccaa atgacccatc 180
cctttggcta atccatgata aagcacctca agtatgtttc caggcaccga ttagtgactt 240
cgatttgaca atcagtttga ggatgatagg ttgtgctcat cttgagtgtt gtaccttgta 300
gtttgaagaa ttctttccag aacagactca taaacaatgg atcacaatca ctcacaatag 360
aattgggtac cccatgaagc ctaatcacct ctcttacaaa tatttcagct atgtcttgta 420
ttngntaagg gtgtcttaat ggaatgaaat 450

<210> 3911

<211> 419

<212> DNA

<213> Glycine max

<400> 3911

agcttgtgaa atcaatggaa tctaagattc cgtttgacct aagtcgttca attctgttct 60
tagaaatgtg acctaaacgc ttatgccata atgctcatga gtttgtatta tcaattctac 120
gcttagtacc acgtaattgc gcattaaagg attcaacata cgaaactaca gtattaagta 180
aatatagatt atcataagcc aagagtgaac cagttccaac aatacctgaa ttgaaagaca 240
acctaaacac attgtttcca aatgaacaca aataacccaa tttgtctgaa taagaaactg 300
aaaccaaatt ccgtctaaat gacagcacia caaaagtgtc tttcaaattc aaataaaaat 360
tagtacataa taataatcta aagttcccta tagcttcac ttccaccgat ttaccatct 419

<210> 3912

<211> 439

<212> DNA

<213> Glycine max

<400> 3912

agcttcaacc aaggggagat ggaccatttc aagtgttga aagaatcaat gacaatgctt 60
acaaagttga gctgccccgat gagtataatg ttagttccac cttcaatgtc tctgatttat 120
ctcttttttga tgcagatgga gaatccgatt tgaggacaaa tccttctcaa gagggagaga 180

atgatgagga catgaccaag agcaagggca aggatccact tgaaggactt ggaggaccta 240
 tgacaagggc tagagcaagg aaagccaagg aagttcttca acaagtgtg tccatactat 300
 ttgaatacaa gccaagttt caaggagaaa agtccaaggt tgtgagttgt atcatggccc 360
 aaatggagga ggactaaatg acaccacttt gtctcaattt tagagtgtt agtttgtcta 420
 aataatggcc caatccttg 439

<210> 3913
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3913

gacactatga aactcagctt acacaggcaa gtgtttcgtc ttaattccaa atcaçagata 60
 tgtcataaat tgattntgca agtcatttcc catcaaatca aagataatgt gcataatcat 120
 catgggtcaa tgggactttc caaggtcgaa cttttagga aattggtttt ggttgctctg 180
 gtctttcccc cttctttttt gtgtgagtag gagagcaggt acaaagattt ggctagtaac 240
 ttanacgggc gatcacttcc tatccctca tgtcttaacc aagttactat tgttccccct 300
 ccttcttaat gtttacaaca actctgtaca tggttcagac attgtttgtt ctaaagaact 360
 tgtttttcct tttctatttt ccttttgtc ttttctattt tgtttgatag attttntttg 420
 gttccctttt ctttctttct ttctttc 447

<210> 3914
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 3914

agcttgtaag aagtatagca atatgggaga atgtttttgg ttgattgata aggacttagt 60
 gatgcaatcc taccctcgaa gggcattggc tagaagactc caagtagatt gggctagaga 120
 tccaaggaaa ggccctaggg ttctcatgag ccttagggta gatttcgagc ccatgggcta 180
 agtatgagcc cgcttatctt tgtaaattt agaatagggt tttccttcgt ctaggccttg 240
 tattttggcc attctagtag tatagggttt tagccttgta tttcggggca ttttgagttg 300
 tctttgtaat aaggactttt tttttattt tcatgtttt tgtcatgggg gtgagcttag 360

ctattatagg ggggtgtgtag ctaagctcta gcttctcatc tcaaggaggt gagcttagct 420
 attagagagg tatgc 435

<210> 3915
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3915

ttcaaagac aataactgtt gactcggatg tccgattgag tcattttata attgagacg 60
 ctcaaaagtg aatgcaagag ctcttaccac attcaaagc caatatactt ttactcggac 120
 gtgcgattga gtcccgtaat atatgtagat gctcaaaatt gaaaacagaa gctctgagca 180
 aattcaaacg acaatagctn tggactcggg tatnccgatag agtcatttaa taattcgaga 240
 cgctcaaaat tgaatacaga agctgtaatc aaattcaaat gacaataact ttagactcga 300
 atgtccgatt gagtcatttt ataatttgag acgctcaaaa ttgaatgcag acactctaac 360
 catattcaga tgacaataac ttttgactcg gatgtccgat tga 403

<210> 3916
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3916

agcttgcttc agtataatag gaagcaccaa tataaatatg ttgatgccta ctattgatat 60
 atagcattga ccatacatga aactagcgag agagaatata aactgttgat aatagtagac 120
 tccataggta gtgatgctgt gtaaaccact acaacaagaa agcactttaa attatagtat 180
 tacgtagaaa tttctatggg tgtgttgatc atgctcgccc tcactttana ttggcaattg 240
 gattgtgcc cttgaagct tttcacagtt ctgccatcac tgggtggtgac ttgaaaagag 300
 agggattgcc cattgaggta tgagttttct tgtcaatttt gcccacaatt tcttgacatg 360
 ggtttccacc ctgggtttgga ccctttgatg gacactgaat tcatatcacc agcttcaccc 420
 acatt 425

<210> 3917
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3917

tgcttctaca tggagttcat catccattgc cctaaccxaa caaacatctt tatcttggga 60
 ataacatgta gaatagttgt tccagataaa gtagtagtaa gagaaacgtg tccaaaacag 120
 gcggcagatc atgagcgaga agggacaaag taggattggt cctgacataa actttacctg 180
 gtttagcaagg aagatgcaga caagtcagtt caagcagca gcananatgc acaaagctc 240
 aagggttagaa aaggcagagg ctaatgattt ttaggtaatg atgcaatcct ccctatgaag 300
 ggaccaatca ctagaacat gagcaagagg ctccaagaag atttgactag agctgctgaa 360
 gaaggcccta nggttctcat gaaccttann ggtagattct gagcccatgg gccaagggtg 420
 ggtccatnta tctttgtaca tattagacta ngatgtcatt a 461

<210> 3918
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3918

tcgcacttga taatggagac acatgaacag cgctaggcaa cgacattcat ggcgctccga 60
 acaaagggtg agtatggagg attgccttga ggggccgcac ttangcaatc atgaaactaa 120
 gctccaaact cgaaagtga ggacacatga acaaccctaa gcaataatat tcatgtggct 180
 ccgaaaaagg atgagaatgg aggattgcct tgagggtcct ctcttaggca atcatggaac 240
 acagctccaa actcgaaaac ggaggacaca tgaatganac cgcaattcat tcacgtggct 300
 ccggaacagg atgagaatgg aggattgcct tgagggtcct ctcttatgca atcatggaac 360
 acagctccaa tcatggaaca cagctccaaa ctcgagaacg gaggacacat gaatgacaac 420
 gcaattcatt cacgt 435

<210> 3919
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3919

cgtaagatgg acttgaggaa gggtactcta cctgtcattg tcaacatata agcctaccac 60
gagctctagt tactattgac tttatcgagg ataaaatcaa atgtatgatt agtaaatttc 120
ttgtcaagaa ttgaaatccg ggtacttata taagtcctcg atttacttaa atccacttgg 180
caccactata tctacttga cttgccagct agcattatta tataaaaaga tgcgggagtt 240
ttcatcactc tctttagctc cagaactata aaaaaacaat ntaagggtca acttgatggc 300
atctatctaa tccgtcgagg cttctacaaa tagcagaata tcattcgcag agacaaggta 360
tgaaattatg agcccccttt gtttaactgg atgg 394

<210> 3920
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3920

tgtaggccta ggatcttctt catcaatgga ttcctttgct ttttagaaga tgaatggcag 60
tggaatggag aaggaagaga gagaggagat gccacttcaa ggagaagatg agtctagaag 120
aagctcacca ccatagaagg ccatggctaa gagcttggag gaagaagaag atgaatgaag 180
ggagaggaag agaagagcac gaaattttat gctctaaaag agctctgaaa tctgaagttt 240
aattttcaaa tgatcaaagt tgcaaaaaat gcacacacat gacctctatt tatagcctaa 300
gtgtcacaca aaattggagg aaaatttgaa tttcaattca aatttcactt gaatttgaaa 360
ttgaatttgt ggagccaaat tntcactaat tatgattagt 400

<210> 3921
<211> 385
<212> DNA
<213> Glycine max

<400> 3921

agcttcattt ctttttcact catgtgtcca agtctttgat gccacacggt tgaattattg 60
acaacctcag taattgttat catatcctca tctgcaatta tgtaaagaga tcattgcttc 120
tttccatgag ccacaacgag attgcctttt gttaccttcc aagctccatc tccaaaagcg 180

gtgtaatgcc ccccatcatc caactgcct atagatatta aatttctctt taaggcaaga 240
 atatgtctga cattatgcaa tgtccatagg gatccactgg aagtcttgat gtcaatatca 300
 cctcttccga caatgtcaag agaatttcca tctacaaggg aaacttctcc aaatcttcta 360
 gacatatagt tagacaataa atctt 385

<210> 3922
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3922

gattcttaag ttacctgccg catgcaagct tggcatccat acctaagag gattttatgt 60
 gttcttaana ctggtctcta ttatttgctt ccaaagtttc atggccttgc aggtgaagac 120
 ncgcacaaac atttgaaaga atttcacatt gtctgctcca ccatgaaacc cccagatgtc 180
 caagaggatc acatatttct gaaggctttt cctcattcat tacagggagt ggcaaaggac 240
 tggttgtatt accttgctcc aggtccatca cgagctggga tgaccttaag agagtattct 300
 tagaaaaaat tntccctgcc ttcaggacca caccatcag gaaggatatt ttacgtatta 360
 cacaactcac tggagagagc ctgtatgagt actgggagag acttaagaaa ctatgtgcc 420
 gctt 424

<210> 3923
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3923

tcaacattca atttcgtgcg tctcgatatg ttacgggact ttatcttaca tccgagtaaa 60
 aagttatggc cgtttgtatt ggctcagagc ttcaactttc aatttcaagc gtctcgatat 120
 gttacgggac tcaatcagac atccgagtaa aaagttatgg tcgtttgaat tggctgagag 180
 ctgtaacatt caatttcgag cgtctcgata tgttacggga ctcaatcaga catccgagta 240
 aaaagttatg gacgtttgaa ttggctcaga gcttcaacat tcaatttcga gcgtctcgat 300
 atgttacggg actcaatcag acatccgagt aaaaagttat ggctcgattga attaggtcag 360

agattcaaca ttcaatttcg agcgtcttga tatgttacgg gactcaatca tacatccg 418

<210> 3924
<211> 413
<212> DNA
<213> Glycine max

<400> 3924

agctatgatt tcctttgttc cggaacacct tcttttctca tgtgcaccca aactcaatct 60
ccgggttcga agacaacctt ctttcttcc tttgttggtt gtttagcata gcttttattt 120
ttcctctcaa tttgatcttt gactctctca tgaagcttct tcacatagtc ccgctttgct 180
tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaagagtt 240
agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300
ctatcgaagc aaattcaaca tggggtaaac aagcttccca agtttttaag ttcttctca 360
aaactgtcct aagcaaagtt cccaaagtcc tattaacaca cttccgttgc cat 413

<210> 3925
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3925

tgtctccttg caaggaactt cctatggngg ggtgttcaat ggcatatatt aatcccttgg 60
gtgaaatggg aagtagtgtc tctctctaag gaggatgggg gtctaggaat caaagatatt 120
tctaaattca atacagctct gatgggtaga tggatatggg ctttatcttc taatcataat 180
cagctgtggg ttagaatctt attgtctaaa tatggtggat ggtcagatct tagcagtggg 240
agggataaat cttggcagtc tcattggttg agggacctcc gaaagttata tcatcagcct 300
gaattcagta ttatccagca gcagatggtt tggaaggtgg gaggagggga aaanataaaa 360
ttctggacag ataattggtt gnggaagaa tataatcttg aacagcaatt cactcagcta 420
ttcctgataa tgagcagcaa acaatacata ttaacatggg aatc 464

<210> 3926
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3926

gtcacctgcg gcatgcaagc ttctagacaa tggttntgta agttctccat taccttctta 60
gtcatggggt ccatcagtc aagcatgatt acttcctatt caccattggt tcaaggaatt 120
ccttaatcat tctactaatg tatgtagatg acatcatcct gtctggacca aattctacct 180
ctgtgcaggc tattcagacc caattgcaat ctatgtttca attgaagatc cttggccctt 240
tgaaatattt ccttggctta gaaatagcta aatccagcag aggtatctca ctgcctaga 300
aaaaatacat tggcatgcaa accttccaat ctnnaatgg atcccaactt gaagctcaat 360
cttcatgatg gagacttacn tctgatccc tcaatgtata agagggntaa ttggtagaaa 420
tggttatctg accatttcac gtnctgatat a 451

<210> 3927
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3927

agcgtagata tggacctggg tgttgccat tttatcata tcttctgtaa tactcatcac 60
ctctatcata tctaataatn ttcacattta tgtctaattg cccttttact tcattgtagt 120
aaatttctaa ggcattcatt gcctaagaaa tctcaggcag taagtagaca taaccataac 180
gtgaataatc atcaataatg gtgataaagt atcattcctt tctgaaagaa ctaacatcaa 240
aaggtccaca aatatcagca tccacaattt caagaagctg agtgcttctt gtagctcttt 300
tctttgtatg ttnntgtag tntcccttaa tacaaccac acaaatttt agatccataa 360
aatctagata aggaagaatt tcattcttta ttaatcttct catcctttct ctagaaatgt 420
gacctaaacg tttat 435

<210> 3928
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3928

agctntgtgt attttcgtgg agcttacaga ctatgtcgag gaataatacg actaccttgt 60
 atgctgtatg gtggggcaaaa agagcaccaa aatgagcccc cttggataat cgggtctacga 120
 ccactaatat caccgtgaaa ccgtgggatg atggcagtcc tatgatgaaa tcgaggggaca 180
 aatcttccca tatgcgggaa ggtatgggaa gaggttatag cagactgaca acctctttgt 240
 ttcataattta atctgttggc acatgggaca ttgcacgacg taccagcgga catctttctg 300
 tatatgtggc caatcaaaaat tctgtcgtaa acgatgaagt gtctttgata cctctgtgtg 360
 accgtcga 368

<210> 3929
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 3929
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 agcatcattt ctagcactaa attgttggga gttggaagtc atcttctcaa ttaaattctt 120
 ggcttcagta ggggtcatgt ctccatagggc tccaccactg gcagcatcta tcatgcttct 180
 ctccatgtta ccaagtcctt cataaaaata ttggagaaaa agctgctccg aaatctgggtg 240
 gtgagggcaa ctggcacata gtttttttga atctctccca gtattcatat aggctctctc 300
 cactgagttt cctaattgctt gaaatatcct ttctgatggg cgtgggccta gaagcaggaa 360
 agaatttttc taagaatact ctcttgaggt catcccagct ggtgatggac cgtggag 417

<210> 3930
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 3930
 tagggatgga acacttactt gttggtgatg aataaaagct catatacgga atcaaaaaat 60
 gcgaaaaagg atgaccctag ggctgcaaac tcgtcaatcc cgtgggtatg gcttttgaaa 120
 gggggggaaa agaagttttt gaatgcaaaa acgccccccc ttctgctatt cttataattt 180
 ggtgcagggg tggctctatc tgatcctgac actgggtaag gaatgatcaa gatgaagaag 240
 aacataactc atggctttta cttggtaaag gggagatcag gtcatgccat ggaagactat 300

aat t t t t c t g g g t t t t c t a t t c t g a c t g t c t t t t g a t a t g a t t g t g t t g c t t g c a g g a a a a 180
 a g t t t t g g g c t c a t c t g a t c c t g a t t c t g g t a a a g g a a a g a g c a a g a t g a a g a a a c a t 240
 a a c t c a t g g c t t t c a c t t g g t a a a g g g g a g a t c a g g t c a t g c c a t g g a a g a c t a t c t t g t 300
 t g c t c a a t t c a a g c a a g t t g a c g a c a a t g a a t t g n g t t t a t t t g t c a a t a t t g a t g g c c a 360
 c t c a n g t c a c a g t g t a c c t g a t t a c t t g a a g t c t c a t t t g t t n g a t a a t a t c t t g 415

<210> 3934
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3934

t g c c g c a t g c a a g c t t c t c t a a a a a c c c t t a a t c t c t c t a t g t a t a c a t t c a t a g g n t n t 60
 t g t c t g t t a a t c c t a t g a g c a a a t c g a g g c t t c a g c t g c t t g a t g t t t c t t c c a t g c t c a 120
 t t g c t t c g t a a g c t t t t g c t t t t a a c t c t t a c a a t g g t t t c c t c t c c t t a a t c t a t t g a a 180
 g c a t c a c a g a t t c a c a g c t g c g t t c t t t t c t a a t a t g t a g g a a g t a t g a g g a a g t t a a t c 240
 c a c c c g g t g t t g a c a a a t t c t a t a g c a t c a c t a a t a a c a c t t a t g a a a a g g c a g a g g t a a 300
 g t a a a t a t g t c g g t c c g t t a t t c t t c t t t t t t t g c t t c g c t a t t t t c c a c t t a c t t g g 358

<210> 3935
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3935

t g c c g c a t g c a a g c t t g t c c a a a t g c a n a c a a t a a t a t g t t t t a a c g g a t a t c c a a t 60
 t g a g t a t t g t a a t a t a t c g a g a c g c t t g t a a t g g a a a a c a g a a g c t c g t a g a a a t g c a a 120
 a t c g c a a t a a c t t t t a a c t c g g a t g a t c g a t t g a g t c c c c g a a t a t a t c g a g a c a c t c g a 180
 a a t t g a a a g c a g a a g c t c t g a g c a a a t t c a a a c g a c a a t a a c t t t t g a c t c g g a t a t c c g 240
 a t t g a g t c a t t t a a t a a t t c g a g a c g c t c a a a a t t g a a t a c a g a a g c t c t a t g c a a a t t c 300
 a a a t g a c a a n t a a c t t t t g a c t c g g a t g t c c g a t t g a g t c a t t t t a t a a t t t g a g a c g c t c 360
 a n a a t t g a a t g c a g g a g c t c t t a c c a a a t t c a a a t g a c a a t a a c t n t n t a c t c g g a t g t c 420

cgcatgagtc ccgtaatata tcta

444

<210> 3936
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3936

tacttgcgga gattccttta tgggaaagac cgataccagc tatgttgatt cattgtgata 60
gtactgcgac tattgaataa attgagaatc gttattacaa tggtaagaaa tgacagatac 120
gtcgtgaagca caacattttt agagaattac tctcaacagg agctgttaga gtggatcacg 180
tacgcactga tgataattta gcagatcctt tgaccaaagg attagctaga gagaaattca 240
ataacacttc taaaagaatg agactattgc ccttactatg atgacattc ataatggtag 300
cccgacctaa atgattggag atcccaagaa ctatgggtcaa tgggtaataa ccaagtacaa 360
agtgatatga gatgaacatn gctgtataag tgaaagcagc atgattcctg aagtaaca 418

<210> 3937
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3937

atggcgggaa tggaatggaa tgtgttattg ggggtgctgca actgcattca tggacagaag 60
ggaaagatgg aacagacctg aagtagaatt agtggagatc atgcatttaa tctgggtagc 120
tgaagctgga tcaaaatctg cctgaacgtn cgcggtggagg ttgatggatt cgcccaagta 180
cgaaaaatgc atcgtgaagg aggcgtaatt ggtgataaca ggccccaag tccgaagcca 240
ctctacgccc aagacgacct cggctccgct caggggtagt acccttagcg tcaactataa 300
cgtatgtcct tgtatacaga gctgtgtatt ggcacatagc tgattgcact ccattactga 360
accattacct accatcactc taagaggcat ggngtcttca acggccaagt tcatgaatta 420
tcaacgcgag gctgaatgat aatatgagt 449

<210> 3938
<211> 454

<212> DNA
 <213> Glycine max
 <400> 3938

taaacatgag agcttgcttg agggggtcaga attctatttg actaattgtc acctttgagg 60
 aacctgatta gctacattaa ttaagttttt cttcttaatc acgttttttt tcatttgaaa 120
 aactctaaca taagaattta ctcgaggagt ccaaacctag ttccacttga aatagttggt 180
 tcgaaagttt ttcatcctaa aagtaaaaaat gaatgtttcc ttgtactaaa caaaccttta 240
 atcttcccc aaaatttcaa catgaattca catatcagta aatataatac atgcatacca 300
 gatagaggtc aagatagtca agttgcaatt cctgtaatgg tttatccaat ggctttggca 360
 catcttcttg tgcattgatc gaacacccta aaatatagcc aacaaatcat aggatccttt 420
 cattcagcac caaacttgct caaacacata caat 454

<210> 3939
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3939

ttaatctctc tatgttatac attcatacgn ttttgtgtgt taatcctatg agcaattcga 60
 cgcttcagtt gctcgatggt tcttccatgc tcattgcttc gtaagcttat gcttttaact 120
 tttacaacgg cgtcctctac ttaatctatt gaagcatcac agattcacag ctgcgttctt 180
 ttctaatatg tacgaagtat gatgaagtta atccaccggg tggtgacaac atctatagca 240
 tcactaataa cacttatgaa gaggcagagg taagaaaata tggtgctnecg ttattcttct 300
 ttttatgctt cgatattttc cacttacttg g 331

<210> 3940
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3940

agcttgggtc tattcgtgca tttgtgcgca attcataatt gccggnacac cacttcaaaa 60
 cagtgtgtca caaaggcgga atagaacttt aatggatatg gctaagagta tgtaaatcaa 120

ttaaacttta tctgtatcct tgcggatgta taccttgaaa actgccacgt agttgttgaa 180
caggggtcct agtaaggtag ttccaaaaac accttttgaa ctatggacaa ataggatacc 240
tagtataccg cacctgcatg tttggg 266

<210> 3941
<211> 331
<212> DNA
<213> Glycine max

<400> 3941

tccgtattct atttcgagcg tctcgacata ttacgtgact ctttccgaca tccgagtaaa 60
aagttattgt cgattgaatt tgctcataac taccgcattc aattgcgagt gtctcgacat 120
attacggtac tcaatcgac atccgagtaa aaagttattg tctgtctgaat ttgctcagag 180
cttccgtatt caatttcgag cgtctcgaga tattacgtga ctcaatccga catccgagtc 240
aaaaggtatt gtcgtagaa tttgctcaga gcttcggtat tctatttcaa gcgcctcgag 300
atattacgtg actcaatccg acatccgagt c 331

<210> 3942
<211> 388
<212> DNA
<213> Glycine max

<400> 3942

tttgtgcaag aaccagtcca tccaatggaa tgatgactgt caagtggcat tcggaaggat 60
caagcaatgc cttatgaatc ctctgtcct tttgccgttg gtgcccggga gacctcttat 120
cctatacatg acggtgttgg atgaatcgat ggggtgtatg ctggggcagc atgacgattc 180
cagaaagagg gaacgagttg tctactactt gagcaaaaag ttccccgcct gtgagatgaa 240
ttactctctg cttgaaaaga cgtgttatgt cttgggtatgg gtagcccatt gtctaaggca 300
gtacatccta agccacacca cttgggttgg atccaagatg gaccagtc agtacatttt 360
cgagaaaccc actctcacca gatggact 388

<210> 3943
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3943

ngactactnt ggactgaaca tattctcgga tgaaataatg atcaatgtct atatgctnng 60
atcggttcag atgagcaggg ttgaagcaa gacttatagc agatttatta tcacaaaata 120
gtatcacaaa gggcacatca acttcatagt aaagaagtaa ttgcttaac caaacaattt 180
cactagtaac agaagacaag gcatgatatt cagcttcaat ggatgatttt caaacaatgg 240
gttggtttctt ataatgccaa gaaagaaggt tggttcccat aaagacacaa aagccagaag 300
tggtatcttct ggtatcaaca cagttggccc aatcagcatc acaaaggca gtgaggttga 360
gagagtcttg agcanggaaa aacaaacctt gtccaggagc aaatttgata tactgtagaa 420
gatgataaac aacatgt 437

<210> 3944
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3944

nntgatttcc ttgttccgga gacctttctt ttctcatgtg cacccaaacc caatctccgg 60
gttcgaagac aaccttcttt ctccctttgt tggtttgttt agcatagctt ttatttttcc 120
tetcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc ttgcttgac 180
cttctttatg cttaaaaaca gaaacattat gcataggcaa aagatcaaga ggagttagtg 240
ggttaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300
tgtaagcaaa ttcaacatgg ggtaaacaag ctcccaagt ttttaagttc ttcctcaaaa 360
ctgtcctaag caaagttccc aaagtcctat taacaacttc cg 402

<210> 3945
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3945

agcttacaat annatgatac gctcgaatta ttatcgaaa ctctcgagaa atttaaattg 60

gcataacttt tcccacggat gtccgattcg ggtgcataat atgtcgagag ccttcaaatt 120
 caacaacaga agctcttgag aaattcaaat ggtcataact tttcaaattgt atgtctgatt 180
 cacgcttata atatatcgat acgctcgaaa ttaaacatcg aaaactctcg agaaattcaa 240
 atggtcataa cttttcacac gaatgtccga ttcgggcgca taatatgtcg agaggctcga 300
 aattgaacaa cagaagctct tgagaaattc aaatggatcat aacttttaac acggatgttc 360
 gattcacgct tattatatat cgat 384

<210> 3946
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3946

tacggacact ttaatctaag ctataatggt cttagaagt agctaactaa tgccctcata 60
 cttgcgttgc caaactttca aaaatctttt gaaattgagt gtgatgcttc aaatgttggg 120
 attggggctg tgttgatgca agaaggccat ccaattgctt attttattga aaagttaagt 180
 ggtcctaccc ttaactattc aacttatgat aatgagttgt atgccttagt acgggctttg 240
 aaaacatggc aacactacct ttatcccaag gaatntgtca ttcatagtga ccatgagtcc 300
 ctcaaata tcaaggggca aggaaagctt aacaaaaggc atgctaagtg tgtggaattc 360
 ctatagcaat tcccttatgt tatcaaact aaaaaggga caggtaatat ttagccgat 420
 gctctttctc ngcgtcatgc attactttct atgcttgaac 460

<210> 3947
 <211> 237
 <212> DNA
 <213> Glycine max
 <400> 3947

agcttctaga tgatttatgt ctgcgaatcg gtcacctgc gagatgttat gaccatctgt 60
 agttctcgag tgctcacgct gtaaattgtc agcggctcca cattttatgt tctccaataa 120
 acatcagagc gagctgtcat gaccattctg atttgctgag agcttccgta tttcaatttc 180
 cagcgtctag atgacttatg tcaccactc ctacatctca ttgaaatgcc ttgacca 237

<210> 3948
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3948

tgacaaataa ttntcttagg tagtgtgcaa taccccaatt attagcttcc tgtaaagcac 60
 taataaattc ttgatcacta cctaggaagc cttttgcaaa acatgcttcc ctaaagtgtat 120
 gatataccag accgttgact gttctaattgt cactgtaaga ctgtgcacct ttggcagtgg 180
 atagcatcat tctaaggtaa aacagttcac cagctgaagg tgggaccac atgagtctgc 240
 ctattgtatt cccttgtttt cttggttgcc aacatctttt gcgggcaaca taaacaaatc 300
 ttgagatata ttgatgatat gtaagatccc atccataaga atatattntg ttagaatgca 360
 tccaagctgt gaacatggat tcttttattg gtgtttttga tagaacttca cctacttgn 420
 gatcatctgt ccagtaaaca tgtntgttga ttt 453

<210> 3949
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 3949

gactaagtgc tcaccaacac tagatattaa tcccttattt ggtatcatgt aaacctgttc 60
 ttctagatca ccattcatga acgccatttt ttcatccatg tgatgcagct caagatcaaa 120
 atgagctact aatgccaaaa ttactcgaag agagtctttc ttagatacag gggaaaaggt 180
 ctctctgtaa tcgattcctt ctctttgagt gaatccttta gcaacaagtc ttgccgtatg 240
 tctctcaatg tggccttctg agtctgtctt tgtttagaag acccatctac atccgatggc 300
 gtggacacca gcatgcaact caacgagatc tcaaactcgg ttagatgcca tagaatccat 360
 ctcacccctc a 371

<210> 3950
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3950

tcaaaccaca gcaacacana atctaggtat ccaaaacccc tcaatttaat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgagcta aatttgaagc aaactctcac ctacacaag 120
 tctataacat caatttaaac ttgttcaaac tggatttacg cctaaaattt caccgaatca 180
 aaatttgact cctcaacacc caaatttacc ctgaaatga ctctttgttc actttgggtca 240
 tttgtttttc tctctagcac agcccanact ttctcattga aattctgata ccaggggaca 300
 gatgtcgtac cggatgtcac gacatcacgc ttcagaacat gcagattata tgtgtccgta 360
 tgaccagatt aaacaagtta ataacacaag ag 392

<210> 3951
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3951

atacggacac ttaaaactaa gcttaagttg ctnggatagc aacttgtttc gggccagcaa 60
 atcgtcctgt gatgaaagct ccagcaggct tcttttggtt gggatgtgtg ctctatcaca 120
 caagattgca tggtcactag cagccatatt ctcaatcaat tccatggctt cttcaggggt 180
 cttcaatttt atttttcccc ctgtagaagc atctaaaagc tgcttggatt gtggccttac 240
 cccgtcaatg aaaatattga gctggatcgg ttctgaaaat ccatgagtag gcgtctttct 300
 tagttacca cgaaatcttt ccaaagcctc actcaagggc tcgtctggaa attgatgaaa 360
 gaatgagatg gcagcttttc cttagtagt cttggactct gggaagtatt tcttcaa 417

<210> 3952
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3952

agcttgagag ggttatggaa cgaacgatag attgtcttat ccaaaatana ctgtatgtag 60
 atagctgaag tcttcttttt ggctcaaac gatcaattgc tgtgataagt cccttaactc 120
 ctgcctgaca aagatcttga aacctcgggc cacttgcaaa atcttgaaaa tatttggtga 180
 tcacgaacaa tacaagccgg agattgtgct gcaaacgata tcaccatgat ttcttaatct 240

cagtataact attactcatt ccaaagaata gcaacaaaca cagcaacaat taatccattc 300
 atatccaaag agacagagaa agagtagtaa aaggaatgga gatgtaacat atcactgatc 360
 ttcgaaggct tcttataagc aaatctaana taagagttga acattccatg atacctttat 420
 gaagttgttt ctcgcagctc gaccaacctc tatagctttt cttac 465

<210> 3953
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3953

tgtgcattca atatcctgat aagggtgttc catatgttct caagactgta ctaatacatt 60
 tgctgcccac gtttcatggt cttgcagggtg aagatcctta taagcatctt aaggagttcc 120
 gtattgtttg ttccaccatg aagccccctg atgtccaaga agatcatatc tttctaaagg 180
 cttttcctca ttctctggag ggagtggcaa aagattggct atactacctt gtccttaggt 240
 ctattttcaa ctnggatgac cttaataggg tgttcttggg gaaattcttc cctgcatcta 300
 ggaccactgc catcagaaaa gacattntat gcacangca acttagtgga gaaaacttgt 360
 atgagtactg ngaaagat 378

<210> 3954
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3954

cctgccgcat caagcttcta aactttatac aagaatgaag ctcttatacc acttggttga 60
 caagtttctt caaatatctt aagaaggggg ggggggttga attaagatat cacaaactat 120
 ttccccaatt aaaattttat ttactttctt attcaagtta taaattccct taataatgaa 180
 cttcttaaat actgattcta atggaacaat ttgaatatga atataagaca atcataaata 240
 aacgagttta aggcaagaga aaatgcaaac tcatatttat actgggttccg gcacacctt 300
 gtgcctacct ccagtcccaa gcaacccgct tgagagttcc actatcttgt aaacacctat 360
 tacaagatct gaaccacaca acgacaaccc tctcttttnt tcacatttct ttacaac 417

<210> 3955
 <211> 478
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3955

cactatgaat actaacctta tacogatatg ggctcaaaac ggcagcaggt atcttcattt 60
 tctgagtaag cggctcccat ggtttggttca tcaattcagt gggctgaaca aaatcatcct 120
 ctctttcatt gacaaaacca ccttcctttg gccatatagc attgccatag ccatagggtgc 180
 cctttgttca aagagccacc tatcatgata aaaatctcca gtttggtccc tcaccagtgc 240
 tgacttcggt gacttcatca tggacaatct cctctacatt ctagacattc cacttggtgg 300
 aggaagtaga aggggatgcc cactatctat agccacttca tctagctctg tgttctgata 360
 tgggtccgag catcctgggc atataccacc tncgtgtctt actgcattta tataacaatc 420
 tctgcatatc ttaaaatgac actcacatgg aaaaatatca tcacacagtt catcgctc 478

<210> 3956
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3956

caaaatagtg atatttatat tactcaattg taagactata tttgagttct attcaactcg 60
 accatcaaca cattggtaaa tattttactt aaatgggttc agtagatgtt tagtcttcta 120
 atatttcaaa acttagattt taatccttga ataagagctt aactagtcaa gtctcaactt 180
 cttttttggt aaaattntag tctttcaaca aaagcttgac cagatcctta aactttntaa 240
 aaattatatt ctaaagattt aaatagaagt ttaaacttca ttattttatt tatttatcta 300
 tctaataaga ggtagaagt taaaaattaa aatcttaaaa accttgatga atactttgtg 360
 ttcatagaat acagaccttt aacaaaaaag aaa 393

<210> 3957
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 3957

actaagcttg aggtccacta gatgccttag ttaacctggt gacccatctg gccatgaata 60
aaaaatctgc acttgctgcc agactctgtg gtttatgctc atttgctgac caccacacag 120
acctttgccc ttctatgcaa caatctgaag caattgaaca gcctgaagct tatgctgcaa 180
acatctacaa cagaccttct caacctcagc agcaaaatca accacaatag aacaattatg 240
acctctccag caacaggtac aatcatgggt ggaggaatca tcctaacctt atatggctga 300
atccttcaca acagccgcaa caacaacctt attttcaaaa tgttgctggc ccaagcagac 360
catacgttcg tccaccaatc cagcagcgac aacagcaaca gccgcagaaa cagcaaaca 419

<210> 3958

<211> 395

<212> DNA

<213> Glycine max

<400> 3958

tatgtattca atttcgagcg tctcgaaata ttattcgact caattggaca tccgagtaaa 60
aagctattga cgtagaatt ttctcacacc ttctggattc tatttcgagc gactcgatat 120
attacgtgac tttatcgaa atgcaagtaa aaagttattg gcgctagaat ttgctcagag 180
cttctgtatt caatttcgag cgtctcaata tataacgcga ccctattgga catccaagta 240
aaaagttatt gtcgatagaa tttgctcaca gcttctgtat tctatttcga gtgtgtcagt 300
acattatggg actcactcaa atatacgagt tgaaagggtg catcatttga atatcctcat 360
agcttctga ctgcatttcg agtgtctcga tgatg 395

<210> 3959

<211> 467

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3959

tctaagcttg atctaacaat ggtttatgag tttattgtcc aatgtataga gatgtcagac 60
tttataaaag ctctaatatg aaataaccta ttcccaccca taatgggtat aggtaatcca 120
tgatctcaaa ccaaccgaaa ttgaccaat tagtttggtt caaatatatt tagcttaggt 180

caaacccaac acaacccaat cctgcctggt caatttacaa gccaaagtaag atgttttgtt 240
 tttttaactc gtgacccaac ccgtaacata taattaaatt cattatatat ataattaaat 300
 tattaaacac aaaacactat atactttttc taacataatg tattaaatta aatcaattat 360
 actcttttct gtttcagttg ttctttttat tggtatcttg atnttgtttt ctcatgctaa 420
 tacaatattt tattttctatc taaaataaaa atattgtatt agcattg 467

<210> 3960
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3960

tgtgctgcaa acatttataa tagaccnct cagcagcaat tccaacaaca tcagactaat 60
 tatgatcttt caagcaacat atacaatcca ggttgagga atcatccaaa tctgagatgg 120
 gcaagtcttc cacaacaaaa acaacctgtc cctcctttcc agaatgctgc tagtccaaac 180
 aagccatatt ttctcctcc aatgcagcaa caacagcaac aacaacaaag acaactagaa 240
 cctgaggctc ctctcaatc ttcttagaa gagttagtga ggcaaatgac catccaaaat 300
 atgcaatttt agcaagagac aagagcctcc attcagattc tgaanaatca gatggngcag 360
 atggctactc agttgaacca agctcagtc caaaattctg acaaatggcc ttcacaaact 420
 atgcagaatc tgaaaaatgt gagtgtcatc a 451

<210> 3961
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 3961

tctacactct atacaagact gaagctctga tacttcttgt tatacaagcg gcctcagata 60
 tcttaagagg gggggttgta ttatgatatc acaactatt ccctaattga aaattctatt 120
 gtgattataa cccaaatccc atgattcctt ttagaatgag ttgctagata attattcaaa 180
 ttatacttac tgaatagaac cgataagcaa tgataaataa cagagtttaa cggaagaaga 240
 agtgcatact gagttttata ctgggttcgga cgcaccctta tgccctacgtc cagtctccaa 300
 acgacccggt tgagagttcc accaactcgc aaaaaattct ttacatgttg tgaaccacac 360

aaggacaacc cttcctttgt gtcagattga ttacaacagg agaccctc

408

<210> 3962

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3962

tctanactnt atacaagaat gaagctctga tacttcttgt tatacaagtg gcctgagata 60

tcttaagatg ggggggttgaa ttaagatatc acaaactatt ccctaattaa aaatactatt 120

ttgattatag cccgaatccc aagattgctt gtacaatgaa ttactagata attattcaaa 180

ttagacttac tgaatagaac cagtacgca taataaataa aagagtttaa gggaagaaga 240

agtgc aaact cattttatac tgggtcgggc gcacccttat gcttacgtcc agtccccaag 300

caaccgcctt gagagtgcc ccaacttgca taagatactt tacatgttct gaaccacaca 360

aggacaaccc ttcctttgtg atcagattga ttacaacaa 400

<210> 3963

<211> 416

<212> DNA

<213> Glycine max

<400> 3963

acattgtttg aatgacaact attgtagttg gacagctatc acatagtttg tccaccttgg 60

tatgctttat gttcctattg ggtatagggt tggtagctt tatgttccta ttggctatag 120

ctttggtgct agaatattca atttggagggt cacaagagga ggatcttcat atggtgttgg 180

agtttttgct ggagaaggta caagacaagc cagtgaatg gagctggagc ttgcagagta 240

tcatggccag tatacatgaa attagcgcat aaaagctaga ttggattctg tgactacaaa 300

ttcatttagc gcttctagct aggtcagcat tctagtctgg ttcaagcttt tgaccttag 360

atcaaacttc ttaatgcact caaacaaccc attggtgacc tcacaatcaa actcca 416

<210> 3964

<211> 435

<212> DNA

<213> Glycine max

<400> 3964

agcttaagct ctttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60
ttcacccgat gaagacactg aaaaaaactt atcttctcct ttttggacaa agtatggtag 120
gctaggggca agtaaatttt cttcccatca gaccttggat gcaactgtga tcgtatgccc 180
atatcagcta gatcttgacg ggtattcaag ccacccctcg tcttgccttg aatgttaaga 240
agcgtcccaa ttacactgcc aaaaacattt ttctgcagat gcataacatc aatacaatgt 300
gtaacgtcaa gataagacca gtacggaaga tcaaagaaaa tggacctctt cttccatatg 360
caactcttac ttttatcctt cctttgggtc atcccaaata cagtattcag gtgttgaacc 420
cgctcatata cctgc 435

<210> 3965

<211> 344

<212> DNA

<213> Glycine max

<400> 3965

agcttcaaca ttcaatttcg agcatctcga tgtattacgg gactcagtca gacatccgag 60
taaaaagtta ttgtcgtttg aattagctca gagcttcaaa attcaatttc gatcgtcttg 120
atatattacg ggactcaatc agacatctga gtaaaaagtt attgtcgttt gaatttgctg 180
agagcttcaa cattccattt cgatcgtctt aatatattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcggt tgaattagct ctgaggttca gaattcaatt tcgagcgtct 300
caatatatta cgggactcaa tcagacatcc gagaaaaaaa tatt 344

<210> 3966

<211> 316

<212> DNA

<213> Glycine max

<400> 3966

tatcctgacg acggtttttc atatgcactc aagactggac taatacattt gctgtccacg 60
tatcatggtc tctcatgcga agaccctcat aataatctta aggagtttca tactgtgtgt 120
ttcaccatga agccccctga tgcccaggaa gatcatatct ctctaaaggc tcttcctcat 180
tctcttgagg gattggcaaa agattgggtg cactaccttg cttccaggtc cattcttcgc 240

tgggatgacc ttaatagggg gtttttggag aaattcttcc ctacatctac gtaccactgt 300
tcttataaaa gacttt 316

<210> 3967
<211> 397
<212> DNA
<213> Glycine max

<400> 3967

agcttgaggg aaaacttgat gccttgggtca tcttactaac tcagctcgcc atgaatcaga 60
aatctgcacc tgttgcaaga gtctgtgggc tatgttcttc tacagatcac catacagatc 120
tttatccttc tttgcagcaa tctgtagtcc atgagcaacc tgaagcttat gttgcaaaca 180
tttataatag accccctcag cagcaaaatc aacaacagca gaataattat gacctttcga 240
gcaacaaata caatccaggt tggaggacaa tcatccaaat ctgagatggg caagtcctcc 300
acaacaacaa cagcctgtcc atccttttta taatgctgct ggtccaagca agccatatgt 360
tcctccttca tgtagcagta gcagcaacaa caacaat 397

<210> 3968
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3968

tgataggana aacacacttg ggaaattcac tagtatcttg gaattacaag acacaagctt 60
gtgtagcact atccactaca acagcaaaat acattgtagt tggaagttgt tgtgctaaaa 120
gtctctagat gaaacaacaa cttgaagact ttggggtaac ccttgatccc attcctctaa 180
aatgtgacaa cataagtgtc attaatctgt ctaacaatcc ggtcatgcat tctagaacta 240
aacatataga gattagacat cattttctaa gagatcatgt atcaaaagggt gattgggtgca 300
ttgagtttgt tgatagtga catcaactag ctgacatctt tattaaacct ctttctggag 360
ataggttctt ctctattaga aatgagctac gtatcctaca tggatcgagt atcgaaa 417

<210> 3969
<211> 410
<212> DNA
<213> Glycine max

<400> 3969

catgcaagct tgcaacagac ttcatcaaat gctaattctat atcctcgc ataaatcgct 60
aagcggtttg gcaatcactt gaaatgtcta ttatgaatcg cctattaaaa ccatcatggt 120
actagacaag ctatctcacg tcctaatagac actttacgtg gcaggagggtg agttatttca 180
acgacattaa tctaagattt gcctacctga atctccctta caataatttt atgccccaac 240
acagtgcctt catgaaccat aaaatgacat attttctagt taagcaccaa gttggactct 300
acacatctct gcaacaccct ttgcaaattc catggatcgc actctataga agagccatag 360
agatacaaat catccataaa acattcaata cacttcttca ccatatctaa 410

<210> 3970

<211> 107

<212> DNA

<213> Glycine max

<400> 3970

agcttcaaca tcagaccacg accagcgtgc tggatctact tcacatggac ttgatggggc 60
ctatgctagt tgaaagcctt ggaggaaaga ggtatgctta tgtgtgt 107

<210> 3971

<211> 317

<212> DNA

<213> Glycine max

<400> 3971

ctttagatca tcacttactc caagcaatac aactgtttg tttttgtcat ccacccttgt 60
ccctttctga tcacgtacat ggacatgact tccgcacca aatacttta tgatattctac 120
tttaggttg attccactcc acatctcttc tggagtttca tctttcactg tcaatgtcag 180
acctcttgag agaacatgaa ctgcccattt tcgcattctc tggccacaaa acctctggca 240
cttgtttgtc acaaagcatg caccgcacca tatttataat ggttcgatct ttactctcg 300
ctacgccgtt ttgtgtgt 317

<210> 3972

<211> 388

<212> DNA

<213> Glycine max

<400> 3972

agtcttgatg caacatatgg agagggttaat gttacaacga gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
ccacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatggttga 360
tacatggacg gagatgaaaa agatcatg 388

<210> 3973

<211> 432

<212> DNA

<213> Glycine max

<400> 3973

agcttcttgg cagttgtggt tggaattctg ttctttcttt tgaccagctt ttctgatcca 60
gggacaataa aactgagaa tgttgctcac tatatttctg cttatcccta tgataatatt 120
atattattcag agaaagaatg ctccacttgc aaaattccaa agtgagtttg ctactgttgc 180
tgaattttgt tgaaatattg gttaaactta tctataaaac tgtcttaatt tttttatgca 240
gacctgctag gtcaaaacac tgcagcattt gtgatcgctg tgttgctcga tttgatcatc 300
actgtggatg gatggttagc aatctttgaa attctccctc tttataagat tgcttgcatt 360
gttctcattt aatatacatc atgtgttttt ttggagttgt gctgaaagtt gttttactca 420
cagaacaatt gc 432

<210> 3974

<211> 401

<212> DNA

<213> Glycine max

<400> 3974

tgtagggtta cagtctcatg actgtcacgt gcttatgcaa caattgttag tcgtggctat 60
acgagacatc ttgccaaaca aagtcagggt agcgataact cgctgtgct tttttttaca 120
tgctatatgt agcaaagaca ttgatcctgc caagtttgat gagttggaaa atgaggccgc 180

aattatattg tgccacttgg agatgtatct atccccctgct ttcttttgaca tcatgattca 240
 cttgattgtg catctgggtca cagaaatcaa atgttgtggc cctgtttatc tactgtggat 300
 gtacccgatt gaccgataca tgaagatctt aacagggaa acaaagaatc tatattgtcc 360
 agaagcatct attgttgaga ggtacattgt agaagaagcc a 401

<210> 3975
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3975

tgtattctga tatggtttga ttcacgaaag aagaaatata ttagttaa aattgcttct 60
 aaatttggtg ctaatgggtgc aatgttatct tggtcaccag atgaacacct atctctcaat 120
 ggatgggtgc ctctatcgca agccacactt tgaacagctt ttcaaggaat ctggcaattt 180
 cagcaagaac tttcaaaca gtaagatgta accatccttt gttcatcact ttgtttacta 240
 attttattca accgcaatct cattgagtac aaattcatat gcacctgtca ctttctattg 300
 acttggttaa catgttatgt tgttttcatg accataattg cggcacagca aagtcttctg 360
 ataaacaaaa tgagacggta tgnntacgat ccagnctaaa cacatatgtt gcattttgag 420
 t 421

<210> 3976
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3976

tagtcataaa gccctcttct agtaatagac ttaagctgag gagattactt ttcatacctg 60
 gtacaaagag tacatcactg atgcaagaat gacctctatc ctttgttttg ataaggacct 120
 tcccaattcc tttagcactc aaagttctat catcagcaaa tttgacttga ctcttcacag 180
 attgatcaag gttgagaaac cactctcttc ttctgtcat atgagttgag caacctgtgt 240
 ctatgtacga acatttatca cttgcccctt caatntgant anntaccatt aacagtacct 300
 gttcagtgct atcatcttct tctgagcca attatgcat 339

<210> 3977
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 3977

tgcttctaca ttataggtca tgaaaatgat ggttatgcta caattgaaat tcttgcccac 60
 ctactcatta atgaatatga tgatccaatc aatgctatag tcaaatcaac attcccagac 120
 ttagaccagc accacaataa tcctcaattc ttcaaacta gggcaatact agcttcaaca 180
 aatgaaacag tagaacagat caatgattat gtactatcct tcattccacg taattatctc 240
 attagttatt taattgacat ttcttttagtc aaaaatatgc ccaactgaaat tggaattctg 300
 caaacatata gtgaccacat ggaatatcta cgctctgatt ccgttgacca catccagttg 360
 gccaaacttat tgtatcaagc ttaaaattag aagtactata atgctcttaa cgaacctcga 420
 c 421

<210> 3978
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 3978

agcttcaaca acaacctgga actgatacctt tatcagccca cagcagctta gaaccaacc 60
 aataatgctg caaggctgac acaaattccc cttttcagtg aaccagtttt tttgcccagt 120
 cctccctgca gcagcaacaa ttagcaaacc aaaacaccaa ataaccaacc attgacgaat 180
 aaacatttca ctgcttcaaa tttctatcta acaaattcaa aagcccgagc tgcaatttct 240
 atactctaaa caaaactgta acctcaattt aaaatcaaat gcactctcaa ccgtaaattg 300
 aacaatcagc aaacctaacc gccaaatcac caacgaacaa acatttcacc gtttcaaatt 360
 tcaatctgca acagcaaata gcaattgcag ccacaacact acaatttcaa aagcctcact 420
 gtaattgcta taa 433

<210> 3979
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3979

tgtaatcgat tacacatata ctgtaatcga ttaccagagc agatttttcag aanatattct 60
caacagtcac atctttttat gtgggttcttg aatggctatc aaaggcctat atatatgtga 120
cttgagacac gaatttgoga agagtttttc agaacaaaaa ggtcttatcc tcttaaaaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgatgatt caataaggaa 240
ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttctcttc 300
ttcttcattc tgaaaaggga ttaagagacc gagggctctc ttgtaaagaa ttctaaacac 360
aaaggaagga ttgtccttgt gtgtctagaa cttgtcaaag gagtntacaa gatagtggaa 420
ctctcaagcc ggttgcttgg ggactggacg t 451

<210> 3980
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3980

ttacgtgaca ctatgaatct aagcttaatt tttgaaagtt ttagctttcg caattaaagt 60
aatatttgag aacaaaaaan aacaatcaaa aataaaaatt gttaccttaa cttcctcttn 120
ctctatttct aattatccaa gttttttact tatccatgca taggtttttt actgaagggt 180
attattataa gtatttatat aactattttt ttaattaaaa ttagagtttt actctggtga 240
agtgtgtaat atttattgtc tttattgtgc gagttactaa atgaaactct aattttagtt 300
tataaacatt ataaaaaaca tttaagggtgc tactcttacg ttntataaaa agataaatag 360
aatagat 367

<210> 3981
<211> 374
<212> DNA
<213> Glycine max

<400> 3981

tcaaagtcca cccaagaag gacattagag gattctatgt tgccatggat taaggatgaa 60
acttgatgga tgtaagcaag tccttgtgct acatgttctg ctattttcaa gcatgatgtc 120

caatgcaatg gttttgccct cgctgatctt gaacctgggc ataataatca tcatcaaaca 180
tcaattgggc aataactgat agcatgtttg acgtggccgt gaggtgagtc aaaattaatt 240
ttaatttcat ggtagatgtg aaacacatta ttttggaaaa atcatgggtga caacgattct 300
tttttatcag atgatgctga ttatgaggta actaccatga ttttaatggg atacaaacat 360
gctatggaac tgat 374

<210> 3982
<211> 456
<212> DNA
<213> Glycine max

<400> 3982

agcttcaaca tcataccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgctgtg gatgatttct 120
ccacatttac ctgctgttac tttatcacac aaaaatcaca caccttcgaa gtattcaagg 180
agttgagtct aagacttcca agagaaaaag actgctgcat caagagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaagttta ctgaatactg cacatctgaa ggcatcattc 300
atgagttctc tgcagccatt acaccacaac ataatggcat agttgaaagg aagaacatga 360
ctttgcaaga ggctgctatg gtcattgcttc atgccaaaga acttccctat aatctctggg 420
ctgaagccat gaacacagca tgctacatcc acaaca 456

<210> 3983
<211> 435
<212> DNA
<213> Glycine max

<400> 3983

tattggagat gtgctacagg aaatatgtcc aaacagtgga caaatcattt agcaatggta 60
gaactatggg ataataccaa gtttcataca accacccaaa tgacactttt tgaggcctca 120
tatgggtatg gacctacaag tcctaattta atagacaagg gagaaactct aattgaggca 180
gtagattaca ctgtgaagac aagagagcag attggaagaa tgttgcaaga caaactcagt 240
aaagctcaag agagaatgaa gatgtatgca gacaagaaga ggatagacaa agagtttaat 300
tctggagatc ttgtgtactt gaagattcaa ccatgcaagc aacactcctt ggcaaataca 360

tactttcaca agctattggg gaggtattat ggtccctaca aggttattga caggatatgg 420
aaggtagcat acaaaa 435

<210> 3984
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3984

agcttaagga ttcttaggga actactagag acatcactat cactgccaaa ctacacacat 60
cagcctgctt agaggtaagg gatgagttta tcgcaattga ggttaaaatg aacatatgta 120
gtgatgtaga tccatgtgca gcttgttaggc cttggatctt cttcatcaat gaagtttttt 180
gcttcttgaa gatcaataaa aggggaatag agaaggaaga aagacgatta gagatgtcac 240
ttcaaggaga agatgagtca agaacaagct caccatcaaa agaagccatg gataagagct 300
tgaaggtagg atgagatgag tggaggggaga aggagagaaac gagcatgaaa ttntatacct 360
canatgaggt ctgaactttg aagtgtaaat ctaaaatgat caaagttgaa aaaagtgcac 420
acacaaggcc tctanttata gcctaagtga ca 452

<210> 3985
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3985

agacttaaca tcagaccact ttcaggggtgc tttaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggtgtg gatgatttct 120
tcagatttac ctgggtctac tttatcagag aaaaatcaca cacctttgaa gtgttcaagg 180
agttgagtct aagacttcaa agagagaaag actgtgtcat cttaaagaatc atgagtgacc 240
atggcacaga gtctgaaaac agcgagttta ctgaatactg cacatctgaa ggcattcttc 300
atgagttctc tgcagccatt acaccacaac ataatggcat aagtgaagg aaaaacatga 360
ctctgcaaga ggctgctagg gtcattgcttc atgccaanaga actttcctat aatctctggg 420
ctgaagccat gaacacagca tgctaca 447

<210> 3986
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 3986

agctttgatg caacatttgg agaggttaat gatacaacga gatgatgcg tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
 tgggtgttct agacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc acaagggtgaa gcttgccgcc acagagtttt ccgactatgc 300
 tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatggttga 360
 tacatggacg gagatgaata agatcatgag gaagcggat gtgccggcta gttactcaac 420
 ggacttgaaa ttcaagctcc aaaaac 446

<210> 3987
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3987

tcacagtcca cccaagaag gacattagag gattttaggt tgccatggat taaggatgaa 60
 acttgacgga tgtaagcaag tccttgtgct acatcttctg ctattttcaa gcatgatgtc 120
 caatgcaatg gttttgccct cgctgatctt gaacctgtgc ataataatca tcatcaaaca 180
 tcaattgggc aataactgat agcatgtttg aggtggccgt gaggtgagtc aaaattaatt 240
 ttgatttcat ggtagatgtg aaacacatta ttttgaaaa atcatggtga caatgattct 300
 tttttatcag atgatgctga tattgaggta atcaccatga tttttaatgg tatncaaaca 360
 tgctatggaa ctgattggtc cccacacac caagaagtta ggtcttttgc atagaatact 420
 atagaattga aattttgaat 440

<210> 3988
 <211> 459
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3988

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggttgat gatgatttct 120
ccagatttac ctgngtctac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaagttta ctgaatactg cacatctgaa ggcatcattc 300
atgagttctc tgcagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360
ctntgcaaga ggctgctagg gtcattgcttc atgccaaaga acttccctat aatctctggg 420
ctgaagccat gaacacagca tgctacatcc acaacagag 459

<210> 3989

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3989

agcttcaatg tacacatata actaaataac aatttctaac caagatgaga tacatctacc 60
tacttcagnt tgtaaagcat cacgaactgc tgcaagtaag ctatcacgag acgtgcttgc 120
ataaacctac aattcatgcc acatgcgtga gaaaatttaa aacataataa attataacta 180
aatagcacia caaaatctta catggatggg gcatccatca ctaaattcaa ttgcaaacat 240
ctgtggctct tcagcaaacc gaacaagagc agttactgaa gataacggac gaacagtaac 300
agcctgcaaa catctagtaa aaatttctaa cacttgacat aacacttctc attatgagta 360
agactcagct ttcatagaca tatanatgca ttaataagag agtggttgca ttaacaacac 420
gtaaagccaa cataaaact 439

<210> 3990

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3990

atgcttaaaa cagaaacatt atgcataggc aaaagatcaa gaggagttag tgggttaaaa 60
ccataaacia ctttcaaagg agaacaatta gtggtgctat gaacagctct attgtaagca 120
aattcaacat ggggtaaaca agcttcccaa gtttttaagt tattcctcaa aactgtccta 180
agcaaagttc caaaagtcct attaacaact tctcgttgcc cattcggttg tgggtgacaa 240
gtggttgaaa ataacaattt agtgcccaac ttgctccaca tagtcctcca aaaatgcaaa 300
tcatcaagcc taggtatagg atgcctatat ttaatggtga tgttattaag ggctctacaa 360
tcagaacaca tgcgccatgt cccatccttt ttanggacca naatcactgg gacag 415

<210> 3991
<211> 429
<212> DNA
<213> Glycine max

<400> 3991

tttctttgag caaagcaaag gcttgctcta gtttttcacc ccaggtaaatt gccacattct 60
tcttcaccaa atcattgaga ggtgatgcaa ttgtagagaa attaggaacg aaccttctat 120
agaagcttgc taacccatgg aagctcctaa tatctccac actttttggg gtgggctatt 180
cttggtggc cttgattttc tcagggtcca cttggacccc atttctacca actacaaaac 240
ctaagaaaac tatattatct acacaaaagg tacacttctc tatatttgca tagagggtgt 300
ttttcctaag gattgaaaga acttgctga gatgtcctaa gtgatcatct aggctcctac 360
tgtacactaa aatatcatca aaataaacia ctacaaatat acctatgaaa tcccttaaga 420
catgatgca 429

<210> 3992
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3992

agcttcaacc aaggggagat ggaccatnta ttgcttgaa agaatcaatg acaatgctta 60
caaagttgag cttcccgggtg agtataatgt tagttccacc ttcaatgtct ctgacttata 120
tctttttgat acagatagag aatccgattt gaggacaaat ccttctcaag agggagagaa 180

tgatgaggac atgaccaaga gcaagggcaa ggatccactt gaaggacttg gaggacctat 240
 gacaagggct agagcaagga aagccaagga agctcttcaa caagtgttgt ccatactatt 300
 tgaatacaag cccaagtttc aaggagaaaa gtccaaggtt gtgagttgta tcatggccca 360
 catggaggag gactaaaggg cgccacttcg tctcaattat agagtgttta gttgggtctaa 420
 ataatggccc aatccatgta aagttggctg accaaaaata t 461

<210> 3993
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3993

agctngcctt gccccttga tatattgagg ttttcatggt cactatgaat gacaaattcc 60
 ttgngataaa ggtagtggtt ccatgttttc aaagcccgt aagagcata caactcctta 120
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcagttgga 180
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
 aaagattttt gaaagtttgg caacgcaagt ataggggcat tagttagctt ttgcttaaga 300
 acattgaaag cttcttcttg tttctctccc catttgaaac cagcatnttt cttgagcact 360
 tcattgagag gtgctgccaa tgtgctaaaa atcttcacaa atcgtctata aaaactngct 420
 aagccatgaa aactc 435

<210> 3994
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3994

ngatcttnta gtttntatc tttaatcttt aatccgcgaa tgaactattc aagtttgtaa 60
 ttcgaaacttt aattatcttt taattcgttc ctaaagatag atcgccaaat ctgttgctaa 120
 ctgcacaata atctgttaaa gatataacag atttatgtgt ccagtatttc gggcaggatg 180
 tcctggacat tgtatccgac atcgtggatc ctgcacaatc tattaaagat ataacaaatt 240
 tatgtgtcca gtattttcgg gcaggatgtc ctggacattg tatccgacat cgtggatcct 300

gcagcttcaa ttcttcattt gacattttat cttgccttgt gcattgtgca gcccgatctg 360
 attcttgaca taatgttaga catcatgtgc agcaactcca gcttntcttc aatgtctaag 420
 tgcttat 427

<210> 3995
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 3995

agctcgtgca atcagtatcc tgataaggat gttccatattg ttctcaagac tggactaata 60
 catttggtgc ccaagtttca tgggtcttgca cgtgaagatc ctcataagca tattaaggag 120
 ttccatattg tctgttccac catgaagccc cctgatgtcc acgaagatca tatctttcta 180
 aaggcttttc ctcatctctt ggaaaaagat tgggtgtact accttgctcc caggtccatt 240
 accagctggg atgaccttaa gtgggtgttc ttggagaaat tcttccctgc atcaaggacc 300
 actgccatca gaaaagacat ttcaggcatc atgcaactta gcggagagag cttgtatgag 360
 tactgagata gattcaagac attgtgtgct agctgtcctc accactatat atctgagcaa 420
 ctgcttctgc aatatttcta tgatggac 448

<210> 3996
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3996

agctnttcac tcggagatct gattcaggcg cataatatat cgagacgctt gaaaatgaac 60
 aacggaagct ctcgagaaat tccaatgtc attaccttta actcggaggt ctgatttagg 120
 cgcctaatat atcaagacgc tcgaaattga acaacggaag ctctctagaa attcaaatgg 180
 tcataacttt tcaactccgag gttcgattca agtgcattg ataccagac gctcgaaatt 240
 gaacaataga agctctcgag aaattcaaatt ggtcataacc ttaaactcgg aggtccgatt 300
 taggcgcata atatatcgag acgctcgaaa tttacaatg gaagctcttg ggcaattaca 360
 atggtcataa ctttcatctc ggagggtccga ttcgagttac taatatatcg agacaatcga 420
 aattgaacaa tggatgctct cgagatatca aatggcataa ctttaac 467

<210> 3997
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 3997

tcaagaataa tggcctcagc aaacttctta ttcccagaag gaaattcgat aaataggctc 60
 tctattttta atggagaggg ttaccactac tggaaaaccc gaatgcaa at tttcattgaa 120
 gcaatagact taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctagaaata caacaataga gaaacctaga gaagagtggg ttgaagaaga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatt attatttctg ccttaggaat ggatgaatat 300
 tttaggggtt caaattgtaa gagtgctacg gatatgtggg acactctaca agttacacat 360
 gagggaacaa ctgatgtcaa tgcaattttc ccaacagggg cctcatcatt cacagtcggg 420
 cccgccttct ctttctcgcc tatattcgcc t 451

<210> 3998
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 3998

tagcacttgg aaccagacc cttcattgac tagcttgttt atgctgggca gagggaatgc 60
 gtctttgggg cagccctat tcaaataat gtagttggg cacatttgc atttgcgtt 120
 ggcctttatt accatgatga cattggcgag ccaagtagaa tacctaactt ctgttatgaa 180
 gctatcatta aggagtttgc cgacttcttc tttgatggc ttacgtcgat attctctcat 240
 attccttttc ttctgtgata ttggattggc ctggagacaa atagcaagtt tgtggtagat 300
 tatgctggga taaattctcg gcatgtcagc tgactaccaa gcaaaacaat ccgtattcct 360
 gtgtaacacg tcgatgatgc accagtgtc atggcttgtg acgttcttat tgagccgcgt 420
 g 421

<210> 3999
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3999

ntgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgaaatat 60
atcgagaaggc tcgaaattga ataccgaagc gctgagcaaa cttaaacgac aaaaactttt 120
tactcggatg tctgattgag tcccgtata tatcgaaacg ctggaatgtg aatgtagaag 180
ctctgagcaa attcaaaca caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatg gaataccgaa gctctgagca aattcaaaca ataataactt 300
tttactcgga tgtccgattg agctcccgaa tatatcgga cgctcgaaat tgaatgtaga 360
agctctgagc aaattcaaac gacaataact ttctacctcg atgtctgatt gag 413

<210> 4000
<211> 401
<212> DNA
<213> Glycine max

<400> 4000
atccttaagt cacctgcggc atgcaagctt ctacattcaa tttcgagctt ttcgatatat 60
tactggactc aatcggacat ccgaggaaaa agttatcgta gtttgaattc gctcaaggct 120
tcggcattcc atttcgagcg tttcgatata ttacgggact caatccgaca tcacagtga 180
aagttattgc tgtttgaatc tggtcagagc ttcggcattc cattacgagc atctcgatat 240
attacgggac tcaatcagac atccgagtaa aaagttattg tagtcttaat gtgctcaggg 300
cttctgtatt ccatttcgag cgtctcgatg tattacggga ctcaatcaga catccgagtt 360
aaaagctatt gtcgtgtgaa tctgctcaga gtcctacat t 401

<210> 4001
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4001

tactaagctt ttaataanaa tatgagataa attacatttt tatttcgata aatagatatg 60
aaattatttt taattntttt ttttttgaag aaggtcagta tccatatctc tctaacatta 120
taaatagaag catcaacttg aggcaacatg cattagacac atactaaaaa agtttaagtc 180

taattttaga catgaagact agaaggagaa tttatccttt agagtttcat tcatcaaata 240
attgatatag attggtttgt gaatatactt agagtcttca cactatatatt gaagaaaaat 300
tttactactt aaagaatata tatccgggta tacaaatcta tttttttcta tgtattatca 360
ttggatatct tgaatacaaa ataaatccta attcttttat gtaaataatta ggaacacttt 420
tatgtaacta ctaactatca tgcattgtata aatcaacact ata 463

<210> 4002
<211> 398
<212> DNA
<213> Glycine max

<400> 4002

tectgttggt gttgttgctg aaggaaactca agttaagact tttgaagaga ttcgatacac 60
cgttcactat gtccaatgcg ttgttgctga gtcctcaaaga agtggtgaga accctagcca 120
tggtcttgcc agcctcgttg gtcgtgttct cgaaccatc caaacatgtc tgttggtgag 180
cgagagtacc ggcgatccag accttgagat cataggcgta atcgttcaac ttgtttagtt 240
caaactcttc caacttgca acggattggg gcatgtcatc gacagcgtaa cctagaactc 300
tcttgagat gtccatgccc tgtttgttca tgcgtcggt ggcaagatcg tggtagagcg 360
tacagtattt tatatgctct gcgatctctt cggccggt 398

<210> 4003
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4003

tagcccttaa gccagtgaca tgttgaagcc aagtaacaga atgaatcaaa tcttcaatgc 60
caaaacctgc agcaagtttt gatgggtttt taaccactga tactaaattt tcttggctct 120
tgcaattctc gccaaaggca gcccttgaag caattgtgta aattgatgta agtactgctt 180
cagtgaggtt gatgnggat cctttctttg aatcaatcca tttgacaaga ttgaagagct 240
catcttctct aattggctgg aatgagttga cgcgttttag gcttaaaagc tccaatgtgc 300
atatttttct tagctggctc caataatttc catagccagc aaaagctata cttgtggaat 360

tgtaagacat tatctcaata gctagaactc taggccttgt ggcaaagtta atgtcatggg 420
 ttctcatcac tctcctagca cac 443

<210> 4004
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4004

agcttgagta cactatgaac gcacacccta tcttgatacc tcaagactcc atcagttccc 60
 actctaaaac tactctctct ccttgcgact atggactcta actgggctga caagaatggg 120
 tcaaacttct gaccctcacg gatctcgctc aaaagttcgc tggtgactct caacataccc 180
 aacttaatgc tactagaggt gatctcacat gccaaactca tgtctctaaa ctgctctaag 240
 aggcccaact ctctaaccat caaagcagac atttgaaggg attttctact taaggcgta 300
 gctactacat tggctntacc tggatgatag ctaagctcan aatcgtaatc ctttaaggaac 360
 tctaaccatc tctctgcct catgttaagc tctttctgat caaacacata tctaaggctc 420
 ttatggtcac taaacacct 439

<210> 4005
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4005

tgatgattgc ctatgggcat ataaaacaac cttcataaca cccattggcc tctccccgtt 60
 tcaaatggtg tacggaaaag catgccacct acaagggtag ttagaaataa aagcttattg 120
 ggccatgaag ttcctcaact ttgactctac aacatgtaga gagaggagga aggtaaagct 180
 acaggaactt aaagagatgc gcctcaacgc atatgaatca tccaagctct acaaagaaag 240
 aaccaattgg taccatgaaa aatgtagaag caagcttcat gatgatgaat caaatttgat 300
 tcaagttggt ttgatgataa caaagatgat gaaaaaaagc ccaagagaat gatttcaaga 360
 ttgagtcaag aacaattcan gagtcaagag aaatttgata tcaag 405

<210> 4006

<211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4006

agctnttata tataggaggt gagttcctac tatctctaca ctatcctcac ctctcaatgc 60
 gctgttgaag aagaacgtgg cattcacttg gggtgacaga caagagcaag cctttgcttc 120
 gctcaaagaa aagctcaccc atgcacctgt tctagctctt cctgactttt ctaaaacttt 180
 agagctagaa tgtgggtgcct ctggagtgagg tgtgggagct atattgatgc aaggagggaa 240
 cactattgct ttatatagag aataccttca tgggtgccacc ctcaactacc ccacctatga 300
 tatagagctg tatcccttaa taagagccct gcatacttga gaacattacc ttggtttcaa 360
 ggaatctgac attcatagag atcatgaatc acttgattac attagatggc acagcaagtt 420
 aaa 423

<210> 4007
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4007

tggagggcga caatctccaa tcatacggaa cagcaattat tgcattagct tctatgccaa 60
 attcaataca ccacttaatc cattctttcc aaactgatga aagaggctct gccatttaaa 120
 catgtacatg atacatcagc aaaccataaa gtacaaaaac tacagcaaatt acaggacaaa 180
 atcatatttg acaaattgac acggcataaa gaaacacacc tggtatataa cctggatcaa 240
 gttctgtaat gccagacaga ccactatccg gacgggactt gcaatcagga tgatctgtct 300
 ggttgtaagg atccaacacc atgcacttaa gccagcaatt gacagcagaa agaagctgca 360
 aaacattaat tctcagtttc tcacatacca cactnttaac tntntaaatc gcagctcatt 420
 agagctaatt tatacacagc aggagatat 449

<210> 4008
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4008

tactaagctt gaatcgatac acatatactg taatcgatta ccagagctta tcttttagaaa 60
atattctcaa caatcacatc tttttatgtg gttcttgaat ggctatcaaa ggcttatata 120
tatgtgactt gagacacgaa tttggaaga gtctttcaga acaaaaaggc cttatcctct 180
taaaaagcaa aatcgtttta ttctcttaca aattccttgc ccaaaacact tgtgattcaa 240
taaggaatta tttgagtgtc caaattgntt aatctatcta tttcaaaata gattncttct 300
tttcttcttc ttcatcttga aaagggatca agagaccgcc ggtctcttgt tgtg 354

<210> 4009
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4009

tgtcaaagaa tccaacctct catggtagaa gcaaacacat ataaactagg tttcactatc 60
ttanggatca agtgaacaaa gagaaactaa aagtggagta ctgctgcaca tttgatcaac 120
ttgctaatat tttaaccaa cccctcaaag gggagaagtt taaaatgtta agggatagaa 180
ttggcttgat gaacttacga gatcagaatt aaggagggt gtgaaagctt aattctgttt 240
ttgagtgggt tatatataat tgtacattgg atataagaga gtaacagaat tttaaaattc 300
tggtataagt gcctacccta antgtgaaag gttgttactc tgttttgctt gtataaaaag 360
acatacatgc atcttaataa tgaggattat tcattctatc atgttctcag tcttttagcgt 420
tat 423

<210> 4010
<211> 381
<212> DNA
<213> Glycine max

<400> 4010

ttcaattctt ttggaagttc atcagttgat ttggcttctt ctggatgac ttcatctgtt 60
cctttccctt tccctttgga atcttgtcca tgaatatgca ttatttctaa agattctgca 120
acatcatcta aaatatcctt tctcggagaa atagcattag actcatcaaa ggaaacatga 180

atagattctt caatagtcāt agctctttta ttatgtattc tataagcttt actatgcaag 240
 gaatatccaa ggaaaattcc ttcattagac ttagcatcaa attttcctat gttttcttta 300
 ccattgttta atacaaagca tttgccacca aaaacatgaa gatgtgaaat gttgggttat 360
 ctagcactaa acaattcata t 381

<210> 4011
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4011

agcttgtagg ccttggatct tcttcatcan aggagtcctt tgcttcttga atatcaatgg 60
 cagcggaatg gagaagaaga ggagttgaga ggagatgccā cttcaaggag aagatgagtc 120
 aagaagaagc tcaccaccat ggcctctatt tatagcctaa gtgtcacaca aaattggagg 180
 ggaaattgaa tttctattca aatttcactt gaatttgaaa ttgaatttgt ggagccaaaa 240
 tttcactaat tatgattagt gaattntagc tatgggtcag ccactaatc caagatcaag 300
 tccaagattc tccactaagt gtgcttaggt gtcatgaggc atgtaaagca tgaaggatgt 360
 gcacaaagtg tgactatatg atgtgg 386

<210> 4012
 <211> 268
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4012

tgtgctcatt ctggtatgtg tacattaact actgtattgg cgctagnngct catactggat 60
 acggtgatga agcttggāat atcttcaatt cgatgccctt acgatatggc attcaacctt 120
 tgggtggatca ttatgcttgc atgggtgggcg tgcttaactg agctgggtact ctattataaa 180
 cagcaaaaatt cgtgtctgag ataccactcg aaccaagtgc tcaagtttgg ggtgctctgc 240
 tacaccgagc ctttgtttat ggtggtgt 268

<210> 4013
 <211> 309
 <212> DNA

<213> Glycine max

<400> 4013

tgcttgtacg ccctggatct tcttcatcaa ttgattcttt gcttcttgaa tatcaatggc 60
agcgggatgg agaagaagag gagttgagag gagatgccac ttcaaggaga atatgattca 120
tgatagaatc taccaccctt gcctctatct atagctctaa tgtcacacaa aattggatgg 180
aaatttgaat ttctattcaa atttcacttg atattgaaat cggatctgtg gagccaaaat 240
ttcactaatt atgattagtg aagtttagct atggttcagt ccactaatcc aagatcaagt 300
tcaagaatc 309

<210> 4014

<211> 447

<212> DNA

<213> Glycine max

<400> 4014

tctaagcttg ctaccaagg aaccatcaag aaattacttg tgaatgagag ccatgagggg 60
gggctcatgg gccactttgg gatagacaag agccttgtct tactcaaaga aaagttctat 120
tggccccata tgaagaaaga tgtgcatagg ctagtctagg gtgatgcctc atgggctata 180
cacaccetta cccattccat ctgcaccttg ggtagacatt agtatggact ctgtccttgg 240
gctccttaga acccaaagag gtgtagactc taactctgtg gtggtagata ggtttagcaa 300
gatggcacac tttataccat gccacaaggt ggatgatgct tgctacatct caaaactcta 360
tcttactgga agtgtgagac tccaatgggt gcctaagacc atcgtgtcaa atagagatga 420
ttagttcctt gcccttctta taaaaca 447

<210> 4015

<211> 412

<212> DNA

<213> Glycine max

<400> 4015

agcttatgtt gcacacatct acaatagacc tctcaacct cagcatcaaa atcagccaca 60
acaaaacaat taagacctct ccagcaacag gtacaatccc ggggtggagga atcatcccaa 120
ccttagatgg tcgaatcctt cacaacaaca acaacaacaa caacagcctt attttcaaaa 180

tggttgctggc ccaagcagac catacgttcc tccaccaata cagcagcgac aacaacaaca 240
gcaatagccc tataaacagc aaacagttga ggctcctgcy caaccttacc ttgaagaact 300
tgcgaggcaa atgactatgc aaaacatgca gttttaacaa gagaccagag cctccattga 360
tagcttaact aatcaaattgg gacaattggc tacacagttg aatcaacaac ag 412

<210> 4016
<211> 262
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4016

ctcaactctt attaattgga gagaaatggt catctagagc atacaagtcc ctaatattat 60
caaattcctaa aattagagct cctacggagc aaaacaatgt gtgtctccta gagagggcat 120
cagctaccac atttgacttt accttggtgt atttgataac atatggaaat tgctctaggt 180
actctacccc actatgcatg ccttttgctt aacttgctnt gacctctaatt gtacttaagt 240
gattgatgat cactatgaat ga 262

<210> 4017
<211> 443
<212> DNA
<213> Glycine max

<400> 4017

tgatgatatg gttgttagac aagtggcctc agatatctta agaagggggg gttgaattaa 60
gatattccaa actacttccc caattaaaaa tctatttgac ttttttttaa ttgagttata 120
aattccctta acaatgaact tcttaaatat taattcaaatt aaaaaaattt gaatatgatt 180
ataaagcaat aataaataaa ggagttaaag ggaagagaaa gtgcaaactc atatttatac 240
tggttcgacc acacccttgt gcctacgtcc agtccccaaa taaccgctt gagagttcga 300
ctatcttgta aattcctttt acaagttcta aacacacaag gacaatcctt cctttgtggt 360
ttagaattct ttacaacaag agaccctcgg tctcttaatc ccttagagaa ttagaaagag 420
aagaagaatg aatctctctt gaa 443

<210> 4018
<211> 435

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4018

tgtatnntgt ggattcactt tgatctcaac tntaccatat ggaaaaacat tagtctgcac 60
aaaaggacca atccactttg acctcaactt accactcatg agtccgagcc tagagttata 120
caataaaact ttntgtccaa ccacaaagtc cttcttagcc atcaagctgt catggaactt 180
cttggctctc tccttgtaga atttggaatt ctcattaggt tctaaacgga tctcatttag 240
ctcacttagt tgcaacttcc tttcttctcc agcctgggcc atagagaagt tgcaagtctt 300
tacagcccaa tagactttgt gctctatctc tacaagaaga tggcatgcct tgccaaaggc 360
aaccgataa ggagacattc ctatgggtgc tntgtaagca gtcctatgcg cccaaagagc 420
atcatctagc ctagt 435

<210> 4019
<211> 214
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4019

ggaatcggac atccgtgtga gaatntatga ccatttgaat ttctcaagag cttccgttgt 60
tcaatttcga gcttctcgat atgtgatttg cctgaatcgg acatccgcgt gaaaagttat 120
accacgcgaa tttctccaga gctttcgtg gtcagttttg agcggctcga tatgtgattt 180
gcctgaattg gacatccgtg tgaaaagtta tgac 214

<210> 4020
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4020

gtgatcatct tggattgact atagaactaa tctctaattt tagactctga catactgaac 60
ttgttnttac ctcttcaag aatgcgtttc ttaaaaatga aatttgtgtt atcctctaaa 120
aacttaatta gtatgtgttg ttgattgagt cacttttttt aaaaaaaat actttcggct 180

aaaactactt aaccagttat ttttactttc aaattactct ccttggttaat ttttaaccgt 240
 tgcatttttag ggaaaaaaaaa cttgggttatg tttatctatc attcataaag aataatatca 300
 catthaattat ttattttatta attatatatt cttgcttata tcttaatctt aattaattta 360
 tatatgtatt tatcgtggga taaaaagaaa aaagttaaata aataagaaat tctataacta 420
 ttttagtgaa atcaaaaaaaaa ttaatta 447

<210> 4021
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4021

gtgcaactta agcatggaaa gaagatagtc tacactaggc atcaaatatt tctcaaagaa 60
 tatcacccat atcgattgta aaaagctctt aatggaagtc caaagtctgg attttccctg 120
 atacccttat cgagaaatga actttatgag caggtgaagg acatacatatc tatctttgga 180
 aagacccaaa ataaagatgc aaataagaca aacatatgaa agaagatgac gatattttca 240
 atcttccata ctantctgtc ctagatgtta gacattgtat tgatgtgatg catgtggaga 300
 aaattttttg cgatagttaa atcaacacac ttcttaacat taaaggcaag acaaaggata 360
 acttgaatgc tegtcaagaa ttcggtgaca tgggtagtga gacatttaag atacttattt 420
 ggagac 426

<210> 4022
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4022

gctcgccacc acggagttgt ccaactatgc tcttgtgtgg tggaacaagc tacaaaatga 60
 gagagcaaga aatgaagagc caatggttga tacatggaca gagatgaaaa agatcatgag 120
 gaagcgatat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
 ccaaggcaac aaggggggttg aggagtattt caaggaaatg gatgtggtca tgattcaagc 240
 aaagattgaa gaagatgagg aggtaactat ggctcgattt cttaatgggt tgactaatga 300

tatccgtgat attgttgagc tacaggagtt tattgaaatg gatgatttgc ttcacaaagc 360
aatccaagga gagcaacaat taaaaaggaa aggagtggct aagaggagtt ntaccaactt 420
tggttcttct aattggaaag acaa 444

<210> 4023
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4023

agcttnccaa gttttaagtt attcctcaca actgttttaa gcaaagtttc caaagtccta 60
ttaacaactt ccgtttgccc atcggtttgt gggtgacaag tggttgaaaa taacaattta 120
gtgcccaact tgctccacaa agtcctccaa aaatgcaaat catcaagcct aggtatagga 180
tgcctatatt taatggtgat gttattaagg gctctacaat cagaacacat gcgccatgtc 240
ccatcctttt tanggaccaa aatcactggg acagcacaag gactcgtact atctcttacc 300
caaccttngc taatgagttc atccacttgt ctttgaatct ctttggnttc tcgtgaatta 360
cttctatagg ctggcctatt ggcaaagacg ctccggaatg agatcaattg atgctcaatt 420
ccctc 425

<210> 4024
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4024

tgccaagtggt ttntatgggt catttcanat attggagcat attggcaaag tggcttacia 60
actccaatta ccggaagggt ctggaattca ttctgttttt cacagctccg ttctcaaacc 120
attccacaaa ttgtctgaag attcgatttc cctgtggca ttacttgaaa cagaagttga 180
caaccaacct gtgatcacac ctcttgctat tattaatact cgttgagatc actctactgc 240
tgaaccccgct ttgatggtac tggttcaatg gacaggcctg tcccctgatg atacctcatg 300
ggaagattgg gctagtttga aagctgatta tcaccttgag gacaagggtgt ttttagatgg 360
cataggggat gataggaaag gaaccatggc ctaacatgat attactgtgg atgttaatg 419

<210> 4025
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4025

agcttcacca tgtcttgggc aactctaaga ggctctctaa tcaatttgaa ggatgaacca 60
 ctgggcttgt ccacttcagt tttttgtgaa agaaaagggt ctaatgacag tggatttttg 120
 ttccatcacc atattatctt atttttggta ggaaatagct gttgaaaatg ataagaatct 180
 tgttgaaatc ctagaaaact tgaatccaat agatgttggt aaatacatga atttttcagt 240
 gcccccaagc tgggtgctata gctacatttt cangcacaac acatgacaac ttntgtggaa 300
 aatcaatctt agagttaaga tatgaagctt atgttatgat ggcaatatgt tgtatcaaata 360
 caatctgcac atctgctagc ctatcttgga aaaattgatg ccacaaata 409

<210> 4026
 <211> 345
 <212> DNA
 <213> Glycine max

 <400> 4026

ctatataata tattgtgaag ataaataata aaacaagcat attttgaata ggttcaaata 60
 aaacatacaa tactaaaaat gaataatata ctaaattaca taaaacatga tccccttctt 120
 tgaactgaaa gagctttctt ggcttgtcat aataactttt atgtctgtct tgtgacattt 180
 tgatctatcc actaatcatc ttaatcttat ttgaagcttt gttggctatc tttggaccta 240
 agatcaaagg gtttctagta ccataccatc ataatgaggt tcttcatctt cttccatata 300
 taaaaagcct tgtatggagt catttctatt ctagaatgaa aatta 345

<210> 4027
 <211> 358
 <212> DNA
 <213> Glycine max

 <400> 4027

tccgttgggt caatttgaga gtctcgatat gtgatgcgcc tgaatcggac atccgagtga 60
 aaagttatga ctatttgaat ctcccagag cttccggtgt ccaatttcta ttgtctcgat 120

atattatgcg cgctgaatcg gacctcagtg tgaaaagtta tgaccatttg aatatcacga 180
gagctttcat tgttcaattt cgagcgtctc gatatgtgat gtccttaaata cggacattcg 240
agtgcaaagt tatgacccat ttgaacttctt gagcgttgc gttattctat gttgagcagc 300
ttgatatatg aagcacctga atccggcacc cgactgaaaa gttatgacca tttgaatt 358

<210> 4028
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4028

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aatggaagct ctcgagatat tcaaattggtc ataactctta acaacgtggt ctgattcagg 120
cgcataaaat aacaagacgt ttgtaattga acaacggaag ctcgagagaa actcaaattg 180
tcataacttt tcacaccgag gtccgactca ggcgcgtcat atatcgtgat gttacgtatt 240
gaacaccgga agctctcgag aaattcaaata ggtcataact tttactcgg atgtccaatt 300
cacgcacatc acatatctat acgttcgcaa tggaacaacc gaagctcttg agaaattcaa 360
atggtcata 369

<210> 4029
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4029

ngccatnntg acgtaaatca ttgttcacaa tttattcctg atcaaaagtt cataagtcct 60
acattccttt tggcaaattg aagtataaat atttcccact ctacacatct tgtacattat 120
tcaaattctc atcactaact ccacataaaa acaaatttat cactacataa cagcaaatta 180
tctccaagtt ccattcttca atgaatcatt ttgcaagatc tttacctgat tctcatcaa 240
ctttcttctg cattttctc tccttgcaat cagaaaagta aatcatgcac gacagccatt 300
tcagggtatt taacacagcg aggagcccaa tntgtacaaa tatcccatac cctcctttat 360
agcatccaag ggagacacat gacaacctta aacaaagtcc caaagcaaag aatacaagca 420

tcacaagtag tcctctcttc tgattacctc t

451

<210> 4030
<211> 394
<212> DNA
<213> Glycine max

<400> 4030

tttactcgga tgtccgattg agtcctgtta tatatcgaga tgctccaaat tgaaaatagt 60
agctcctagc aaattcaaac cataataact ttttactcgg atgtccgatt gtgtcccgta 120
gtatatggtg agtgctcgaa attgaaaaca taaggctctga gcaaattcaa acgacattaa 180
ctttttactc agatgtccga ttgagtcccg taatatatcg agatgctcca aattgaaaat 240
agaagctcct agcacattca aaacataata acttttctact cggatgtccg attgagtccc 300
gtaatatatc tagacgctcg atattgaaaa tagaagctct gagcaaatcc aaacgacatt 360
aacttttttt ctcgatgtac gattgtgtca ctta 394

<210> 4031
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4031

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cttgttctcc tcctttcttt ttcatttttc atagaaaatt tgatagattt atagatataa 120
tatatttgct cttatatcta tatcttacat aatattttga ttaaataataa ttaaattcta 180
attatatgaa tttatactca caagttaaaa catcacactc aactaaciaa tttattaaaa 240
aattcaaaaa caacaaatta aaaattatga aaaacagaaa ataattgata ttaataattt 300
tatccaaatt taattctgaa ttaacataaa caataaaaat ttgacagatt tatacatata 360
tatctgctcg tataggtata tcttaaaaact aaaacacatt acagatctta atccaaataa 420
tcaatacact 430

<210> 4032
<211> 430
<212> DNA

<213> Glycine max

<400> 4032

ctcaagcttc tcgatatggt atgctgtctga atcggacatg cgagtgatat atcatgacca 60
ttttaatttc ccgagagctt ccgttggtca atttctagca tctcgatacg ctatgtgcct 120
gaatcggaca tgcgagtga aagatatgac catttgaatt tctcgagagc ttgcgtagtt 180
aaatttctag cgtctcgata cgctatgcgc ctacatcgaa catgcgagtg aaaagttatg 240
accattttta tttctcgaga gattccgttg gtcaatgtcg agcgtctcga tatgttatgt 300
gcctgaatcg gacatgcgca tgaaaagtta tgaccatttt aattgctcga gagcatctgc 360
tgttcagatt gtagcgtctc gatactctat gcgcctgaat ctgacatgcg agtgaaaagc 420
tattaccatt 430

<210> 4033

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4033

gagaggctaa tgaaatatct agatgacgcg ctccatgaga ggttgattta tatggagaat 60
agagatcatc atgaagaaga ctggaggaga agagggaatg atggtgctcc tacacaaaac 120
cgaatcgatg gtattaaact caacattcct ccatttcaag gaaagaatga tccggacgcc 180
tactcggagt gggagatgaa aatccagcat gtttctcatg cacaactatg acgatgacca 240
tacagtgaag cttgctgccc cggagttctc cgactatgct cttgtgtggt ggaacaagct 300
acaaaaggag agagcaatat atgatgagcc catggttgat aactggaca gagatgaana 360
agatcatgag ga 372

<210> 4034

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4034

cttggtactc caatgtatct ccactagatn tttttaactc taccagatgg aagactgggg 60

tgatctcaaa aatctctgca tcgataccca atggcccttt tcttccttcc ttggaacctt 120
 ccaacttgaa cgaacccccca tctttctttt tcactttcag acgaagacgg cctgcaaatt 180
 tttccaactt ggagatgatg attgaggctg gcttgctcga tgtaaaccgc tcttctttct 240
 ttcgatcggg ctctctgaac aaaccagaca agtcaaaacc tgaggaatag gagatgatgt 300
 ctaaagcatt taaattatta caaggctctg tagtttttgc cgggttcaata ggatcttcat 360
 tctcacaagc tccaaatact ccatcagcat cgagaggagc caggtcttca tcttcattct 420
 gagtaatggg aggccttctct aaccc 445

<210> 4035
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4035

cgggtacttaa ctctcaaca tggcagaaaag tgaaatgaaa taaaacaatg aacaaacctt 60
 ttaatgtggc tccatgtaga gcttgtagcg cttggacctt cttcattaat ggtgtccttt 120
 gcttcatgaa gatcaatggg cacggaatgg agaaaaagga aaggtgattg gagatgcaac 180
 ttcaaggaga atataagtca agaacaagct caccaccata agaagccatg aataagagct 240
 tgaatgttng agaagatgag tggaatgaga gggagagaaa tgaatgatat tttgggagat 300
 aagagggaga aatataacca ct 322

<210> 4036
 <211> 461
 <212> DNA
 <213> Glycine max
 <400> 4036

caagcttaca acatctagat ctaagtggaa attctcttcg cggagttatc ccttctgatg 60
 tacggaatct tacaagctta cgacacttag agatctaate ttcaattctt ttcgtggaga 120
 aatccattct aacgtaggga tgcttacgag gcttgcaaca tctagatctg agtggaaatt 180
 ctcttcttgg agaaattcct tctgaatgag ggaagcttac tgccttacga tatctagatc 240
 taagttataa tgtggctatt catggagaga tcccttatca ctttaaagac ctctcacaac 300
 tgcaatatct ttgtcttggg gaacataatc gtttcggacc aatcaccttg cggcgtggga 360

atcttgctat ctttcataact cttacacttg aaggcaattc tgatcttaca attaacgatg 420
cacagtggct atcttctctc tcttttctaa cactctgacc t 461

<210> 4037
<211> 419
<212> DNA
<213> Glycine max

<400> 4037

cgagttaacc atattagatt gccccagtt taagtctctc catcttagaa cttctaagtt 60
taaaagtttc agacttgatg gacctcttcc aacgatttgg ccagaatccc atttcaacct 120
tagccatgcc atgcttaatt tcagacttgg accaagctgt gctgacttca aggctcaata 180
tttcaaccaa aactgttga caataaagaa ttgtgaagct ctcactttat gtgagtggac 240
ttttcaggtg tgttcttaat ttctatcatt tctcgtctac tattgctcat ttaatgcaat 300
tatatatctg gccaatctac aacttgagct taattttacg cgctaataga aagacattac 360
aataacttat catacatgac acaacataat ggaaatggga atgcttgac ctctctata 419

<210> 4038
<211> 454
<212> DNA
<213> Glycine max

<400> 4038

cgacccttac aagtcagttt agtcaatggt aaagctaact tggagaaaac ttctatgaat 60
ctccggtagt atcctgctaa gccagaaaa ctcttaatct caacaacgga ttaggactc 120
tcccactaaa gaacgacttc tatcttagag ggatctacag ctataccccc ttgagatatt 180
acatgcccta ggaaactaac tgtctctaac caaaactcac acttggacaa cttagcatag 240
agttgtcggg ccctaaagggt atgcaacaca attcttaaat gttcttcatg ttctctcta 300
gtcttggagt atacaaaat atcatctatg aatactacca caaaactatt aaggtaaggg 360
tgaaagactc tattcatgta gtccataaac atacctggag cattagtcac accaaagggc 420
atgactagat actcatagtg accataacgg gtcc 454

<210> 4039
<211> 426

<212> DNA
<213> Glycine max

<400> 4039

cttgaagaaa gaatgggaac ggggtgaaata gatggaggat gttgttcctt tctttctatc 60
attaagggtta cctcaatcag catctacagc agaggattgc gtggctctaaa tggccaaaac 120
agtgaaggag caactgggga aagatgatcc tatgttttcg gcggtctgctg aagccatgga 180
agagtgggtc aagctctgga agtcagttag atctgcttga agctcccgaa cttgaagact 240
ctcgtatgac tggaggttat tgccttattg gcttctatat ttctctattt tatttaacta 300
atttatactc gccttttctt cagactgtaa gaactaagct tacattttac ctgacacatt 360
tagactactg gctgaataaa atgagtactt atcggccttg tgacaattga ataaatgctt 420
tgtctt 426

<210> 4040
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4040

ttcttgagan aacttccttg agaagcttct ttgaganaac ttccttgaga agctagagct 60
tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc cttagaaga 120
ttctgaaga agctagagct tagctacaca cacatctcta atagctaagc tcacctcctt 180
gagatgagaa gctagagctt agctacacac cccctataat agctaagctc acccccatga 240
caaaaaaaga tgaaaataca aaaaaaaaaa gtccttacta caaagactac tcaaaatgcc 300
ccgaaataca aggctaaaac cctatactac tagaatggcc aaaatacaag gcccaaacga 360
aggaaatacc tattctaata ttacaaaga tnagcgggct catacttagc ccatgggctc 420
anaatatacc ctaaggctca tgagaaccct ag 452

<210> 4041
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4041

tgatatttag tgagttgaaa agtaacctcc cttnttttat taactttaac acacatacat 60
 atatacacia tacaaggctt agagataaga cagcttgatg ggacattaca atgctgtctt 120
 ctgaaacaag ttaaacataa agctagaagc aagcatgtac acacataatt taacagattg 180
 aaatgggatg cataataatt aattaggcca aacattgaca tctatttttt tatactatctt 240
 atgttggtga ttggattagt gtagtactac tagcaciaac tcaaaccaat aaggctattg 300
 tctactgtta agaactttgg gagaactgca ccacaaaagc tggccatttt agttggaggg 360
 ctcaaggcct gattagaatc ccataactnc aacctgggac tctcaagttt cgtaccttcc 420
 aagtggatcc taatatccca caacgc 446

<210> 4042
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 4042

actcagctta tatatatcga tatgctcgaa attaaacatc ggataacttt tctcacggat 60
 gttcgattct ggcgcataag atgctcgagag gctcgacatt gaacaacgga agctcttgag 120
 aaatctaaac ggtcataaac ttacacacgg aattccgatt tagacaaatc acataacgac 180
 acgctcagaa ttgaacaacg gaagctcttg agaaattcaa atggtcataa catttaactc 240
 gaatgtccaa ttatggcgca tcacatatag tgacactcga aattgaacaa tggaagctct 300
 cgtgaaattc ataatggcat aactttctac actgaagtcc gattcatgct cataatatat 360
 cgata 365

<210> 4043
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4043

ctctccaac tgcgcaaggc tcgatacata nggagagtac acttgtggat ccttcacccg 60
 agcaagactc tgacaaagac ttatcttgct ctttttgga aaagcatggc tagctggcgg 120
 caaggaaata tactctccat ctgacctcgg atgcacacta tgatcgaatc tcccatatca 180

gcttgattat gacgggtggt caagccatcc ttcgccttgc catgaatggt aaagagcatc 240
ccaatcacac tgccacatac agttttatcc taacgcatta cattcataca atgtctaacg 300
tctagatcat accatgcctg ctgattaata acagaggacc tcttcttcca tatgccacca 360
taactgttat actta 375

<210> 4044
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4044

ggtgtatcac tntccactgc agaaggcaag tatattgtag caggaagttg ttgtgctcaa 60
agtcttttga cgaagcaaca acttgaagac tctggagtag accttgatca cattcctcta 120
acatgtgaca acacaagtgc gatcaatcta actaaaaatc cggcatgcat tcttggacta 180
agcatagaaa taaggcatca ttttcataga gatcatgttt taaaagggtga ttgttgaatt 240
gagttcatag atagttagca tcaactagca tacatattca ctaaactact ttctagagat 300
aggttctttt tcaatagaaa tgaactaggc atcttacgtg cttctagaat agaatgacat 360
tttgtctagt gtatattatc tattgcatat tgcaatccat atctattgat atctctggat 420
aagtcttagt ttggtgat 438

<210> 4045
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4045

tgtacctttg aaacacatca aatattcact tattagctac attggattgg gcttctacca 60
attcaattaa atttattttc aaccacacac atcaaattatt cacttagtgc atgtgaaatt 120
acaaaactac ccctaataca aaaaactagt ctaggtgccc taaaatacaa gggctgaaaa 180
atcctatatt tctaaggtag tctacctaca ttatggagcc ctaaatacaa ggcccaaaaa 240
taatgaaacc ttaatctaatt atttaciaaag ataagtgggc tcatacttag cccatggggc 300
caaaatctat cctaagactc ataagaaccc tagggccttc tcttgcatct ctggcccaat 360

ctacttggag tcttctatcc aatacccttg cggngtagga ttgcatcaaa aggttacaga 420
gaacttacat tgagaaatcc ttggttaa 447

<210> 4046
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4046

tggcnttgag gacttgctcc aatggctcat catgtcttct attgaacctt tcttcatagg 60
cttgaagaga atccatcaat tgggtctacgg tcattgagtc taaatcctta gactcttcaa 120
tagcacaagc cacataatca aatttagcga ttaaggagcg aaggatcttt tccaccacac 180
gaacatcggt ccatattttc tccataacgc ttcatttggg tcacaatagc taataccttg 240
ttgtcaaaat ctgagataga ttcagattcc ttcatatgca atgattcaaa ctctctatgt 300
agagtttgta ggcacacctt tnttacctta tcaacacctt caagggaggt tttcaaaatc 360
tcccatgctt ctttggatgt ggttgcatth gacaccaact caaacatagc ttcattcaaa 420
ccttgatgaa tgaaagtaag tgcttggtga t 451

<210> 4047
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4047

attcttgatt ctcgaaatca aatctcctct tgaaccttga agtggtcttg attcaatctt 60
gaactcattc ttgatctttg agctttttgt catcatcaaa acttctttga attaattctg 120
attcatcatg aagcttgctt ctacatatac ttccataaga atataattnt tttgttatta 180
gataagaaaa ataaaaatga acatactatt tcataatact ggaatgtgta gaacacgtca 240
atatttggtg tgaattctca tacaatctta atgttctttt ttactacttt tgtaaggcaa 300
gaggagaaat ttaacaatta taaattaaac ttgactaata tgacaattta aatgacatgt 360
ttatgctaag atgaccatt caatgaaaca taatattata atcatcatta aaagagtaaa 420
acttcttaag tgctatgtgt gccanatatg tttgaaaaaa aagaacattt atga 474

<210> 4048
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4048

agcttgtaca tgcctcttat cccttctatt tggtggcaat tnttcacact cctatgtctc 60
 aacaatagaa tttcatatct accatcatca tccaccctct tttcttagaa aaaacaacaa 120
 ccttattgat tgaaaacaca tttattgaga ctcttattag gcatgtaatc atcaaccaac 180
 aaaagctcgt tcctttttct acaatactat tggatttgga ccaagttttt ttgttgtaac 240
 ctctccatga tcgatatctc caccatgaat tggtgtaaca ctgcttcta atcgtgggtc 300
 gcacatttca cagtaatttg agtgttattc agtaatgtgc ttctacactc tcacaaacct 360
 tccagaacct gacaacatct ctttcctaaa ttccccngtc acttaactta aa 412

<210> 4049
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4049

ctgatgggtg cgagaagaca tcacatgtgt gtcacatca acaatgcgga gaatgtgaat 60
 gtatgtatac atgagnttga tgatgtcaaa gaagaatcta acaaggctgc ttcaaagat 120
 aagcatttgc ttcaagaata attcaagatt gcttcaacac acaaagcctt gtttcaagat 180
 tcactaaaga ccaagccttg ccttaaaaca aagtgtttc aatacatgca aggctctggg 240
 aatcgattac caggaagtgt aatcgattac ccgaagacag gggttgagaaa tattctgtga 300
 aaaaggttct gaatatgaat tctcaacatg taatcgatta ccacatgtct gtaatcgatt 360
 accagcaacg aaactttgga aattcaaatt caaaagttat aacccttcaa attataactg 420
 t 421

<210> 4050
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4050

ccagtacaaa agatcaaagt atatcgacct tntcttctat atgtaagttt tacttttttc 60
cttcttttgg gtttttccaa atatagtatc catgtgttca accctctaaa aaaccagctg 120
atcagttaac attatcggca cattttcatg ctcttgactt tcattaaaag ctttcttcaa 180
ttgctgataa cggtgataag gtttcataaa acattgatgc atgttggttct tncatgttta 240
agttgtacgc agcttatgcc ttcttcacag atagggcatg catgatggcc cttaacactg 300
tatccgctca aattcccata tgatggaaag ttattaatgg tacaaaatag cattgtgcgc 360
aaatcgaaag tctcatttca aaaaccatca aacact 396

<210> 4051
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4051

tgtagaatgg ctagacatga tacatgtcan ggcttggttt ggttcaagga taaaagggat 60
gccccacatt atttccatga cacaaatgca aaaaatgatg atttggaat tnatgcaca 120
actggtcatg catgcgccta tgcggacgct caagtgtcaa atttttatgg tcatgtgatg 180
ctagggctca ngattcattt cctctatint aaatcaaccc aatgggttca aaatatgttc 240
ttttatcaat ttgtgcatc ctccaagtcc atttcaagga tggccttcac ttttcgggg 300
tctaccteta tccctttctg gttacaatg aaaccaagca atttccctga tttgacccca 360
aaggtacact tagcggggtt caaccttaat tgatatttct taagcctttc gaacaactnt 420
cgcaggttga caaggtggtt cttctcggat ntagaattag caattatgtn cgtcacgtag 480
acctcgatc 489

<210> 4052
<211> 183
<212> DNA
<213> Glycine max

<400> 4052

cgagcgtcac gatatgtgat gtgcctgaat tggacatccg agtgaaaagt tattagcatt 60

taatatTTTT cagagcttcc gttgttcaat ttcgagcgtc tcgatatgtg atgtgcctga 120
 atttgacctc cctgtgaaaa tttctgacca tttgaatttc tcgagagctc ccgttgtcaa 180
 ttt 183

<210> 4053
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 4053

agcttgagat tgaacaacgg aagctctcga tattaataaa tggtcataac ttatcacacg 60
 gacgtgcat tcatgcgcac aaaatatcta gacgctcgaa attgaacaac gaatgctctt 120
 gagaaaatct tatgtgcata acttgtcaca cggatgtccg attcagctgc ataatatatc 180
 cagacggtcg aaattgaaca tctgaagctc tcgacaaagt ccaatgggtca taacttatgt 240
 caccgaagcc caactctggc ccatcatgtt tggacatgct ctgaattgaa caccggaagc 300
 tctcgagaga ttcaaattgt cctaactttg tacacggaag tacga 345

<210> 4054
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4054

gtgtgaagta tgcaatcctg cataggattg gcaactgcaa ctgggtaccc accaatcata 60
 cttccactgt tgccacaggt ttgggtaaat ttctgtatgc tgttgaacc aagtccaaat 120
 ttaattntgg aaactatatt tttgatcaaa ctattaagca ttcagaatct tttgctgtca 180
 aattacccat tgccttccca actgtattgt gtagcattat gttgagtcaa catcccaata 240
 tcttaaacia cattgactct gtgaagaaga gagaatctcc tctatccctg cattacaaac 300
 tgtttgaggg gacacatgtn ccagacattg tctcgacatc anggaaagct 350

<210> 4055
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4055

ctacaataat atatcaagac gatcgancat gaacaacata agctctcgag aaattcgaat 60
ggatcatgact tttcacacga atgttcaatt cggggacata actcatgtag acgtccaaa 120
ttgaacagcg gaagcattcg agaaatttga atggtcataa cttttcacac gaaagtccga 180
ttgggggaca taactcatgt agacgctcga aattgaaaaa cgtaagctct cgaaaaattc 240
caatgggcat aacttttcac tcggatgtcc gattcgtgga cataactcat ctagacgctt 300
gaaattgaac aatagaagct ctcgagaaat tcgaatgctc ataaatttca ctcggatgtc 360
cgattcgggg catagtata 379

<210> 4056

<211> 421

<212> DNA

<213> Glycine max

<400> 4056

agcttgaacc ttgaatcttg attcttgatt cttgaagtgt tttttattca atcttgatca 60
tcttgatcat cttaaaccatc tttgaacatc ttgaactcat tctttgatta tcatgaattg 120
acctttgagc tttttttcat cccctttggt atcatcaaaa catctttgaa tcaatcttga 180
ttcatcatga agctttgctt ctacacaaaa tccattgaaa tattgtccca cttccactgg 240
ggatatctcca aggggtgtaa cttccctgaa ggtctctgat gttctatctt agccttctgg 300
caaagtaaac atgcatacac aaactcacta acctctctct tcatgttggg ccacaaaaac 360
atcaccttca aatcctgata catcttggtg gcaccagaat gtatgcttaa gttattccta 420
t 421

<210> 4057

<211> 421

<212> DNA

<213> Glycine max

<400> 4057

agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgatttct 120
ccagattcac ctgggtcaac tttatcagag aaaaatcaga cacctttgaa gtattcaagg 180

agttgagtct aagacttcaa agagaaaaag actgtgtgat caagagaatc aggagtgacc 240
 atggcagaga gtttgaaaac agcaagttta ctgaatactg cacatctgaa ggcactcactc 300
 atgagttctc tgcagccatt acaccacagc aaaatggcat agttgaaagg aaaaacagga 360
 ctttgcaaga ggctgctagg gtcattgcttc atgccaaaga acttccttat aatctctggg 420
 c 421

<210> 4058
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4058

atagagttca cttataataa cagttttcac tctaccattg gcatgactcc ctatgaagct 60
 ttgtatggta gaagggttag gacaccccta tgttggttag agcccggaga aggcctcacc 120
 ttatgaccag aagtgggtaca gcaaaccact aagaaagtta agttaattta tgaaaggatg 180
 agaactgctc agagtaggca gaccagttat catgataaga ggaagaaaga tctggaattc 240
 gaggttggtg atcatgtatt cttgagagtc actccatgga ctgggggttg tgcagcattg 300
 aaatcccgaa aactcacacc tcgcttaatt ggtcctttcc aaattcttaa gaaagttggc 360
 cctgtggcat accanattgc actacncccg tctctttcta atcttcacaa tgcctttcat 420
 gtgtctcaac tccgtaagta tatccatgat ccatcccatg tgattgaatg gatgat 476

<210> 4059
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4059

agctntatat tctgccacat tattgggtata atcaaaaccc agcctaccac gaacgatgtg 60
 aattgattca tcagagaaat taacattgcc ctaatttctt accccagttc attggaattc 120
 catcaaataa cataatccat ttttctccat ccccaggttc tccgtattca aataatgcc 180
 ttatgtcttc ttctgggaac tcaaattgca tctattcgta gtcttctata ggatgatgag 240
 ccaagtattc tgctaggttg ctacctttta caactttntg ggtgacgtaa acaataccat 300

actctaatag taacatntgg cagcaatcaa tttgaccggt gaaagtaggc ttctcgaata 360
tatactngat tgaatccatt ttggagacca agtgggtgtga gacaacatat 410

<210> 4060
<211> 433
<212> DNA
<213> Glycine max

<400> 4060

agcttgtgaa atcaatgaaa ttcaagattc cgtttgacac aagtcgttca attctgttct 60
tagaaatgtg acctaagcgc ttatgccata atgttcttga gttagtatta tcaattctac 120
gcttagtacc acacagttct gcattaaagg attcaccata agaagctaca gtatcaagta 180
gatatagatt atcattaacc aagagtgaac cagttccaac aatatctgaa ttaaaagtca 240
acctgaacac attgtttcca aatgaacata aataacccaa tttgtccaaa taagaaaccg 300
aaaccaaatt ccatctatat gacggtacaa caaaagtgtc tttcatatcc aaataaaaac 360
tagtacataa taataatcta aaatgcccta tagcttccac ctccaccgat ttaccatctc 420
caacaaagat cca 433

<210> 4061
<211> 238
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4061

agaattctgg gactgctgtt gattcaattg ngtagccaat tgtcccatct gattgggttaa 60
gctctgaatg gaggctctgg tctcttctgt aaactgcatg ttctgcatag tcatttgctt 120
cacaagttct tcgaggggaag gttgtggagg ggcctcaact gttggctgtt tctgggggttg 180
ttgctcgtgc tggattggcg gaggaatgta tggctctgctt gcgccagtac cattttgg 238

<210> 4062
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4062

gacatcttga ctggctntcc aatctgacat tcaccacaga ttctgccttc ttctattttc 60
agattgggaa tgcccttaac agcacctttg tcaatgattn tcttcatgcc tcttaagtgc 120
agatgtccaa atctttgatg ccatattctg acttcatctt ctttggagga tagacatgtg 180
gaggagtaac tggtttcttg aggtgtccat aagtaacagt tgtcctttga tctgctgccc 240
ttcattagaa cttcactctt ctcatttgtc accaagcatt ctgactctgt gaagtttaca 300
ttgaatcctt catcacacaa ctgactgatg ctgatcangt ttgcagtcag tcccttcacc 360
agcagtactt tgttcagact angaagtnca tcatgaacta gctttcccat tccaatgatc 420
tctcctttag agccatctcc aaatgtcaca tagctagtgg agc 463

<210> 4063
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4063

atagatcctc taatctacaa agtccatttn cagtttcttt cttcccatgt caactacgca 60
gcttgagtt aacataaatg gtcttcccaa gattaaggga atgtcattat cttcacagat 120
atccattaca acaaagcctg ctgggaagat aaaatgtttt actctgacca aaacatcttc 180
aattactcca tatggctctgg tgatagagcg gtcagccaac tgtaaagtca ttctagtggg 240
catgatttcc aactctccta gtcttctgca catggagtgt ggcataagat tgatcttggc 300
tcccaagtca atgagagctt ttccactgtg acttacctat tgncaaggaa tggcacactc 360
cacggtcttt gtgcttcgtg gaatgatttt gaataccaca ctgcaattac cctcacaact 420
atattttcct agtgaatgta ctt 443

<210> 4064
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4064

aatcggacct cagtgtgaaa agttatgacc attcgaatnt ctctagagct ttcgtgggtgg 60
aattccgagc gtctagacat attatgtgcc cgaatctgac ctccgtgtga aaagttatga 120

ccataagaat atctcgagag cttccgctgt tgaacttcca gcgtctcaat atattgtgcg 180
cctgaatcgg agctccgtgc gaaaagctct gaccatttgg atntctcgac agctatcttg 240
gtagaattcc gagcgtctcg acatattatg tgcgcgaatt tgacctccgt gtgaaaagtt 300
ctgaccatat gaatatctcg agagcttccg ctgatcagtt tcgagcgtct cttcatatta 360
tgcg 364

<210> 4065
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4065

tcacttaggc tataaataga ggccatgtgt atgcattntt ttaactntga tcacttgaga 60
attacactgt anagttcata cctcttttga ggcacaaaat tntgtgcccc ttctctccct 120
ctccctccac tcactttctc ctaccttcaa gctcttatcc aaggcttcct atgggtggtga 180
gcttcttctt gactcatctt ttccttgaag tggcatctcc aatcatctnt cttccttctt 240
tattctgctg tcattaaact tcatgcacca aaggactcca ttgatgaaga agatccaagg 300
cctacaagct gcaatggagc tacatcatgt ggtatcaaga gcactttcat ctaggtgatg 360
tgctcttget tcctttatct ttntgtttgg tcaactcact ttacattctt gttcttcac 420
tta 423

<210> 4066
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4066

tgatgaaagc tncaataaac tcttcttatt atgaatgtga actctatcat gcaaaattgt 60
gtggtcacta gcagtcatat tttaattaa gttcatggct tcttcaggtg tcttcaactt 120
aatttttctt cctacagaag tgcgagtaa ctgctttgac tgcggccata acccatcaat 180
gaagatgttc agttgtatag gctctgaaaa actatgagtg ggagtttttc tcagcaagct 240
atggaatctt tctaatacct cactcaaaga ttcacggga aattgggtgga atgaagaaat 300

tacagctctt ccctctgcag ttntagactn tgggaaatat ttntttagaa acttctcaac 360
aacttcatcc caggtcttta aattgtcgcc cttgaatgaa tgcaaccatc tcttggccct 420
cccaaatt 427

<210> 4067
<211> 465
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4067

agtatgtatg gcanaacttc attactggtg ttcaagacat acaagtgagc ttgtaacaca 60
tgttctacac ttggagtgat cacatgcagt cctcttgaac ccttaccacc cactcgggtca 120
tcatgccgag actcaggaag ccaataggtt tagccttctc taagtattct gaacaaaatt 180
caatggcttc ttctgtaatg tacctctcaa caatagatgc ttctggatga tataaattct 240
ttgtataccc ttttaagatc ttcattgtatc gctcaaccgg gtacatccac cgtagataaa 300
taggaccaca acatttgatt tatctgacca gatgcacaat caagtgaatc atgatgtcaa 360
agaaagcacg gggaaaatac atctncaact ggcacagtat aattgcagcc tcattttcaa 420
ctcatcacac ttgacaggat caatgacttt gctacatata gcatg 465

<210> 4068
<211> 337
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4068

agcttgtagg gttaaagtct cagcattgtc tcgtgctcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca ggttcacgat aactcgctg tgcattttct 120
tccatgctat atgtagcaaa gtgattgatc cagtaatgtt tgatgagttg gaaaatgagg 180
ccgcaattat actgtgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaca tcaaagtctg tggtcctgtt tatctacngt 300
ggatgtaccc gggtagcga tacatgaaga tcttaaa 337

<210> 4069

<211> 313
 <212> DNA
 <213> Glycine max

<400> 4069

agcttatgaa attgggcctg gagttggagc tgtgatgatt tttctgtgtg tcgcggcggc 60
 ggtggaagtt acggtggcat ccgcacgcgg cgcacgttag cgagcgcggt tcattgggggt 120
 tggatgaaga agagggcatg aattcaccgc acccatcaag cgcgtgacca cctatgctgg 180
 ctgcatgggt tttgaggcac tctttgtaga aaaccgtcct ggaggggtggc tgttgcgggc 240
 gcgacacggt ggttgggtgg tgggtggtgg gcttgaggga accgtttgtg gtggtggttg 300
 gttgtggagg ggt 313

<210> 4070
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4070

agcttatgca gcaaatatat acaatagacc ttctcaacct cagcagcaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga atcacccctaa 120
 cctcagatgg tccagctttc agcaacaaca acagcagcct gttccttcct tccaaaatgc 180
 tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240
 acaaccaaca gttgaggccc ctccacaacc ttcccttgaa gaacttgatg ggcaaatgac 300
 tatgcagaac atgcagtttc agcaagagac cagagcctcc attcagagct taactaatca 360
 gatgggacaa ttggcaactc aattgaatca acaacagt 398

<210> 4071
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4071

agctattaac cttctnttat atgatagact tttaatgaag aagaagaagc atcaatcaat 60
 ttaataatgt tctttaaacg tgcaacacaa aattgattgc tataaaataa ataaataatg 120
 gaagagagaa tctcaaactc gatttatact ggttctgcca cttcccatgc ctacgttcag 180

tcctcaaaca atccacttga gattttccac tatctttgta aatcctttac atactgtgaa 240
cacaccttgg gatccatcac cctttgttgg acaagtggct tcaataactt aagatggggg 300
gggggggtgaa ttaaattcttc aaaat 325

<210> 4072
<211> 486
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4072

ctgtatggta gaaggtgtag gacacccta tgttggtaa agcccgaga aggcctcacc 60
ttangaccag aagtgttaca acaaaccact gagaaagtta agttaattca ggaaaggatg 120
agaacggctc agagtaggca ggaaagttat catgataaga ggaggaaaga tttggaattc 180
gaggttgggtg atcatgtatt ctttaagagtc actccgtgga ctgccgttgg tcgagcattg 240
aaatcctgaa aactcacacc tcgcttttatt ggtcctttcc aaattcttaa gacagttggc 300
cctgtggcat accaaattgc actaccccggt ctctttctaa tcttcaaaat gtctttcatg 360
tgtctcaact ccgtaagtat atccgtgatc catcccatgt gattgaattg gatgatgtac 420
aagtgaagaa gaaattgaca tatgaaacat tgcctttgag gatcgaggat aggcgaacaa 480
aacacc 486

<210> 4073
<211> 329
<212> DNA
<213> Glycine max
<400> 4073

catgcaagct taagaaagct atctatggac ttaaatatgc accaaggcaa tggatatgtga 60
gacttagcaa cttccttctt gaacaaaatt ttgagagagg aaaagttgat aaaacacttt 120
tcattaaaga gtcttctcat gacattttac ttgttcaagt ttatgtggat gacatcattt 180
ttggttccac taacaaatct ctttgtgaga gatttataca ttaaattgcag ggggagtttg 240
aaatgtcaat gatgggggaa gtaaattact ttcttgggtct acaagtaaag caaatggacc 300
atggaatatt tcttcattaa acaaaaaaa 329

<210> 4074
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 4074

gactagacac cttaagacca tcattcaagt gacactccaa gcactaacga tataaaccaa 60
 ggaggatcatg atgggagata aagaggaatc agactagatg acccccttta agaatttctt 120
 aactcaggat gtgttaccac caaacaaaaa tgaagcccaa cacctgaaaa ggaaggccaa 180
 ttactacatc atccttgacc gagaactata caaaagaggg ttgactgcac ccttgcttaa 240
 gttcctgaat agccagcaaa cagactacgt catgcaaaag ttacatgaag gaatcttcaa 300
 ccttcataca ggggggcgct ccttggcaac caaggtagta cgtgctagct actattggct 360
 aacactcaag actaacaccc tcaacttcat gaggagatgc agaagatgcc aggaattcac 420
 aaatgttctg cgcacactcc ccgtcaacct tcacaacttg agctcttc 468

<210> 4075
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4075

gagcaaattc gaacgacaat aactctctac tcgcatgtct gggtgagtcc cgtaatatat 60
 caggacgcac tcatttgaat gttgaagctg agagcaaatt caaacgacaa taacttttta 120
 ctcgatgtc tgattgagtc ccgtaatata tcgagacgct cgaaattgaa tgttcaacct 180
 atgagccaat tcaaacgaca ataacttttt actcgatgt ctgagtgagt cccgtattat 240
 atcgagacgc tcgaaattga atgttgaacc tatgagccaa ttcaaacgac aataactttt 300
 tactcgatg tctgattgag tcccgtata tatcgagacg ctcgaaattg aatgttgaac 360
 ctctgagcca attcaaacga caataactnn ttactcgat gtctgattga gtcacgtaat 420
 atatcgagac gctcgaaatt gaatg 445

<210> 4076
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 4076

agcttaaaca ttcaatttcg agcgtctcga tatattacgg gactcaatca gacatccgag 60
taaaaattta ttgtcgtttg aattggctca cagggtcaac attcaatttt gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagct attgtcgttt gaattagctc 180
agagctttta cattcaattt cgagcgtctc gatatattac gggactcaat cagacatccg 240
agtaaaaaga tattgtcttt tgaattggct cagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactcag tcagacattc gagtaaaaag ttattgccgt ttgaattggc 360
tcagacgttc aacattcaaa ttcgagcgtc tcgatatatt acgggactca atcagacatc 420
cgagtaaaaa gtattg 436

<210> 4077

<211> 318

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4077

tacttgtgaa agagagccat aaagggtgggc tcatgggcta ctttgggata gacaagaccc 60
ttgtcttact caaagaaaag ttttattggc cccatatgaa gaaatatggt cataagcatt 120
aactaggtg tgtggcttgt ttacaagcca agtctacggt gatgcctcat gggctataca 180
cacgcttacc cattccctct gaaccttggg aaacattant atggactttg tccttgggct 240
tcctagaact caaagaggtg tagacgctat ccttgtgggt gtggataggt ttagcaagat 300
nggcacattt ataccatg 318

<210> 4078

<211> 303

<212> DNA

<213> Glycine max

<400> 4078

agcttggtta ccccatgttg agtttgctta ctatagagtt gttcatagca ccactaattg 60
ttctcctttt gaagttgttt acggttttta cccactaact cctcttgatc ttttgcttat 120
gcataatggt tcggttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa 180

gcttcatgag agagtcaaaa atcaaattga aaggagaaat aaaagctatg ctaaacaagt 240
 caacaaaggg agaaagaagg ttgtcttcga acccgagat tggagttggg tgcacatgaa 300
 aaa 303

<210> 4079
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 4079

agcttccctt tctttggcca atgctggacc tgtttggcag tgatttcctt ggcaatttga 60
 tgctcagaaa cagcaatgtc caccactcca tctgttggtc tgcccaggta tttgttgatt 120
 acaacagggg agaatctaac acattttcct ctaacaaata ctttttgata ctcatcactc 180
 tttctgtttg ttatgtcaga gggaatgttg acaataaatt ccctgactag actttcatag 240
 caatctccca acttggtgac agttttcagc agtccagcag ccttgatgag gtccatgatc 300
 tccttgcaat ccaaggcatc tcttcccagt tctctttcta cagcaagtct gcgttgatat 360
 acaaatttcc acctttcaac attgccaatg gagtggaatg 400

<210> 4080
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 4080

gcgggatgaa ctcaggcgag ggactagcat tcaccaatac tgaggtagag gcggatttta 60
 agcatccctc aatccaccta atacatttgg acccgaaacc cattcttctc agcatatata 120
 acaggaaatc ccatgacact gagtctgaag ccttctcgta gtcaactttg aatacgaatc 180
 atggtttctg gcctttcctc gcttcatcaa ccacctcatt tgctatgacc gtgctgtgta 240
 gtaaatgcct tcattgaagg cagattacct ttogtcatga ttaaaggcat gaccttcttc 300
 aggcggttgg ccagtagctc tgccactatc ttgtaaatcc atcctatgag tgaaataggt 360
 ctgtaatcgc tcagaatctg tggctctgac acctt 395

<210> 4081
 <211> 391
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4081

ctagatgcct aggttaacct gataacccaa ctgactatga ataaaaaata tgcacctgtc 60
accagactat ctggtttatg ctctcttgcc gaccaccaca cagaccttnt cccttctatg 120
caacaatctg aagcaattga acagcctgaa gcttatgcta caaacatcta caacatacct 180
cctcaacctc agcaacaaaa tcagccacaa cagtgcatt atgacctctc cagcaacagg 240
tacaatcctg ggtggaggaa tcatcccaac cttagatggt cgaatccttc acaacagcag 300
caacaacaac cttattttaa aatgctgctg gccaaagcaga ccatacgttc ctccaccaat 360
tcagagaaca acagcaacag ccccaaaata g 391

<210> 4082

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4082

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tggtaatcaa atgatgtttg attttctgaa gcaaattgga aacttagcc aggttaatga 120
attttgtctg atctgcctcc tacctttggt caccactggc atgtaattaa aaggacaaca 180
atactgaaat atatgcacag gtactaagtc aaataattat gatttaggac taagcttgtg 240
ctttntgttt ttacttaaa ttgaataaca ggttcatgcc tatgagaggt caaaccgagt 300
ttacaattac aatttagatc catgtggtcc tgtatatatt acagttgggg atggtggcaa 360
cagagagaag atggcaatca aattcgcaga cgagcctggt cattgtcccg atccattaag 420
tactcctgat ccttatatgg gt 442

<210> 4083

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4083

tgaacttagc tacacaccn ctataatagc taagctcacc ctcagacaa aatacatgaa 60

aatacaaaaa aaaaagtccc tactacaaag actactcaaa atgcctcgaa atacaaggct 120
 aaaaccctat actactggaa tggccaaaat acaagaccta aacgaaggaa aaaacatatt 180
 ctaatattta caaagataag cgggctcata cttagcccat gggctcaaaa tctaccctaa 240
 ggctcatgag aaccctaggg ccttccttg gatctctggc ccaatctact tggagtcttc 300
 tatccaatgc ccttgcggg taggattgca tcattgcctc tagtcataca ctacattcaa 360
 catgcacaac tagttgcctt gtcattgtaa taaagggtga cgtttgaact acagctaccc 420
 tcacatgata tccaaatgaa ttgaaattnt gtgatcaac 459

<210> 4084
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 4084

agcttgtggg atttgtgata gtgatttttt tggagatgtt gatgatagaa aaagtactac 60
 cggatttgta ttttttatgg gtgattgtgt ttttcatgg agttctaaga agcaaggcat 120
 tgtgacactt tctacttggt aagccgagta tgtagctgca acttcttgca catgtcatgc 180
 catttggtta agaagattgt tggaggaaact tcagttgttg caaaaggaaa gcacaaagat 240
 ctatgttgat aatatatctg cacaagagct tgctaagaat ccggtgttcc atgaacaaag 300
 taagcatata gatacaagg atcatttcat tatagagtgc attaccaaga aagaagtaaa 360
 attgactcat gtgaataatc aagatcaagt tgcggatatt ctcaccaagc ctctcaagtt 420
 aaagattttc 430

<210> 4085
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4085

tgctattgta tataactatc caaaagatat tgaagcattc tatatgcggc tcaatgatga 60
 cttaaagaca gtggttggtta tggatgtgct tgtacccaag gtatatgttc tgtatatatt 120
 gttttcatca tgattgtaat gcatggcata atagaagcat gcaaagttaa tttcaggttg 180

gaaaactaat tgggtggaagc caaaggggaag aacattatga tgtcatctag acaagggttca 240
 tataatctgtt tactctgtct tttcttaatt tctttccttg tattgntttc catgttaata 300
 ttgtatttaa attgcataat aaacgaaatg ggtttgccctg ttaagctata tgagtgggtac 360
 cttgatctaa cgcggtatgg aatagtgaag atgccaaatc ttgccttgga tctaaacgat 420
 gattctcttt gccactggct tggaaatatt agacatatga tcctctcat 469

<210> 4086
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4086

taaagaagct atagcttatc tacacacccc ctataatagc taagctcacc cccatgacaa 60
 aatacatgaa aatacaaaaa aaaatcccta ctacaaagac tactcaaaat gcctcgaaat 120
 acaaggctaa aaccctatac gactagaatg gccaaaatac aaggcccaaa agaaggaaaa 180
 acctattcta atatttacia agataagcgg gctcactctt agcccatggg ctcgaaatct 240
 acccaaaggc tcatgagaac cctaggtcct tcccttggat ctctggctca atctacttgg 300
 attcttctat ccaatgccct tgcgngtag aattgcatca ttccctccac cttggaaaat 360
 atttgacctc anacgtgag gttcttcata ctctgggctc ctccctcaa cacctgtaaa 420
 a 421

<210> 4087
 <211> 229
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4087

agtgattgct tagtgcaatt ctccattctc ttctctttat cggagccccg tgaattgcgt 60
 attcgctcat gtgtcctcca ccttcgagtt tggagccatg cgtactgatt gcttaatgca 120
 attctccatt ctgaaacttt tcggagcccc atgaattgcg tttattgtca tatgtactcc 180
 agcttatagt ttggagccat gcgtatagat tgcttanagc aattatcca 229

<210> 4088

<211> 233
 <212> DNA
 <213> Glycine max

<400> 4088

tggggacata tgggtacctt gccccagaat atatcaacca tggtagggct agcaaggaat 60
 tagacattta cagtctcggg gttgtagctc tcgaaatcgc atgtgggacg aggactcaac 120
 aaaacgggga gtttcatgta cctctcgtga actgggacgac ggcaaaatat gtggaaggga 180
 atgctcagga tgtcgaagat gagagactaa acaaggagta tgatgcggat gaa 233

<210> 4089
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4089

ngccaaagag catgtttgca gctatatata agttgctgaa gctttgaatc tctgacgtag 60
 aagttacttg gaatgctacc tgtcagagca ttatcagact attaagccta gaacgaattt 120
 ctccatgtac cttgtttcca accaaattca cgtatgtcaa gttagaaaga tgactcaaag 180
 ctgttgggat tgatccagat aaactgttat tggccaaatt cagaattctc aaagattcaa 240
 gacatcactt agaggaacgt aagtctnttt caagcatggt gtttgatgct gcaaagtctt 300
 ggagctcttc acaaccttca atctcttcaa gtatgtggcc attaatgcta tccattcgta 360
 catcaagaga ta 372

<210> 4090
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4090

tatagcccac agaagaagaa gaagcatcat cagcaactnt cacaatactg aaccaaccag 60
 aactctatt gtggtaacca acaagcttaa cagcgagtcc tctttctggt agaccctcaa 120
 cgatagtcca cttggaaggt ggggtccact tagaaggaat tggacttggg ggacaccctg 180
 gtctgagtgt ggatggaaac acaccgaact gaatgctctt gaaaagctgg cttggggtga 240

tgaaagcgac tctgtctgat cgagatgcaa tctttatcgg taaccctca gagagctcgt 300
 tgccagaatg caccacagtc agagggcaag tttcgtttcc tgcttttgct acttgatttc 360
 caccctcgat ttctcttata actggcaaca cgaaataatt gacaccgtat tgaagcttat 420
 cgccgtcagt gtcgtacaca tgatcatca 449

<210> 4091
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4091

catgcaagct ttntcctccc agtcttgaca atgaaattta tgctcagatt tgttaccaa 60
 gcattgaggc cagatatgat gagtgaaga agcactgctg ctctgttaga tgccaaacct 120
 gccaaactgag caatggtggg actataatac atcacagtgt tgattgccac aaactgctgg 180
 aagactaaga gtccaacgcc ggcatataaa cctcttctca cagctgaagt tctcaagagt 240
 ttgactatgt cgatcttctc tgaagagtct gcttccttaa ttggcatgtc aactgattcc 300
 atcagagcct ggatttcacc ttaaacttcg tgtggcggtt ttatcttctt tacattcgat 360
 ttcgcttact ctctcttacc ctgtgggaac agaagtggac cacagttatt atatacaatt 420
 tcacctgcaa atgacaattg actaatgatg atgaacta 458

<210> 4092
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 4092

attttcaata tatttatcca atttcttaat tatgattggt aaatgaatta taatcttatt 60
 attttttatg ttatttacac ttttgaggta ctttattttt attaaacgtt tacaatttaa 120
 taagttattt atttttattt tcagggaatg ctgccaaca taattttaga ataataaaaa 180
 cattttaaaa gattaaaatg actcttctaa acttaaatat cttaaattgaa atgaaaaagt 240
 aaaacgacat attaaaagta tatctatttt tctaataatga tctttgtata atagtagcaa 300
 taagaattca acctcatgcy tgtacttcaa ttataccatt atctagactt tgttaaactc 360
 ggattgaaca gcgtttttca cttttta 387

<210> 4093
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4093

tgtatggtag aaggtgtacg acaccctat gttggtcaaa gcccgagaa ggcctcacct 60
 tatgaccaga agtgggtacaa caaaccactg agaaagttaa gttaattcac gaaaggatga 120
 gaacgggtca cagtacgcac gaaagttatc atgataagag gaggaagat ttggaattcg 180
 aggttggtga tcatgtattc ttaagagtca ctccctggac tgtagttggt cgagcattga 240
 aatcctgaaa actcacacct cgctttattg gtcctttcca aattcttaag acagctggcc 300
 ctgtggcata ccaaattgca ctaccnccgc tctttctaatt cttcaaaatg tctttcatgt 360
 gtctcaactc cgtaagtata tccgtgatcc atcccatgtg antgaattgg atgatgtaca 420
 agcgacagag aatttgacat a 441

<210> 4094
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4094

tctanactnt atacaagaat gaagctctga taccacttgt tagacaagtc gcctcagata 60
 tcttaagaag ggggggtgaa ttaagatatt ccaaactact tccccaatta aaaatctatt 120
 tcacttttta ttcaagttat aaattccctt aacaatgaag ttcttaaata ttgattcaaa 180
 taaaacaact tgaatatgaa tatgaagcaa taataaacia aggagattaa gggaagagac 240
 agtgcaaact cagatttata ctgggtcggc cacacccttg tgcttacgac cagtcccaaa 300
 gcaaccgct tgagagtntc actatcttgt aaattccttt tacaagttct aaacacacia 360
 cgataatcct tccttttgtt ttagaattcc tttaacaa ga 402

<210> 4095
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4095

gctatgctga gacattataa tagactccct cagcagcaaa tctaacaaca atagaataat 60
tatgaccttt caagcaatag atacaatcca gggtggagga atcatccaaa tccgagatgg 120
acaagtcctg cacaacaaca acagcctgtc cctccttttg agaatgttgc tgggtccaagc 180
aagccatatg tttctncccc aatgcagcag cagcaacaac aacaaagaca acaagcaact 240
aaggcttctc ctcaaccttc cttagaagag ttagtgacgc aaatgaccat ccagaatatg 300
caatttcagt aagagacaat agccttcatt cagagtctga caaatcagat ggggcagatg 360
gctactcaga tgaaccaagc tcagtcccag aattctgaca gattaccttc tcaatctgtc 420
cagaatccca aaaatctgag tgtcattac 449

<210> 4096
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4096

cgcaagcttg agcaacagca ttattaattht gggagcccca gtgtgattga gatcttcctt 60
cttcagataa atgtgaggtc cttcaccatt aggctcttg taatgctccg tcaacctttc 120
agcaaaataa agaggactct cccggccaac ataacttttt agaatcccag ccagttctgt 180
ctgcaactca aaatctaaga aaatttccat tgtttttcct tccaggaaac tacatttcat 240
ggtttctgaa tgtagttaac atacaaatat gagagatgtg ctattatgta tgagagacag 300
aaagttattc tgaatctaatt tgagtgaaga ataacatgga gttccanatt gtttagttct 360
gtatgacact ctgaaaataa aagactaaag acattctgaa gaatgaaatg atacacattt 420
ctacagtcac aa 432

<210> 4097
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4097

atccttaagt cacctgcggc tgcagcttgc attttctcga tatacacaac aattgatcat 60
 tgcctatgta ngngagtgat gaccnaatac attttctaac acaaggtgat cctgagaagg 120
 aagatgttgt gatgtccctg tggcagcaca agttgaagat gcttcttgtg actgatggag 180
 agaaggggtg cacatatattc accaaggtac tatccacca tgttttgaaa atagagcttg 240
 tttgactaaa ttgatttaat gaagatctta tgaaggaaac tgagataata cctttgatca 300
 ttaactgggt ggtaacgttt atgtaataac taatgatctt tggcttgagg tttgctttac 360
 cattcaaggt ggtttttatt atcttatata catatgagct gggatgtctt ttatg 415

<210> 4098
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4098

tgtagaataa actntgtaag gcctaaggga tgctatcagt gtgtcatatc attctcagct 60
 gctggcatat ggtacacagt ctgaaatgta atatccagga acaaacttac cattactttt 120
 caatggacat gtgaacttca cgcaaaacaa aataagacaa acagttctaa cctttctgaa 180
 ataaggaata tgggtacaagg tttgaagtag agaattcata taacaggtag ctcccttggtt 240
 cttaagccca acatagccag tctccttctt ggaatcataa gctcagtaat caacaatcct 300
 acgaacaaga acctcagctt cgactataag agtatcattc acaagatacc ctctactagg 360
 atcatacaat tcataagag gcatgaaaga tgtgaaaccc cctcacttt cgcggtgcatt 420
 aaactg 426

<210> 4099
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4099

agcttcaaca tcataccagc accagggtgc tgggtactact tcacatggac ttgatggggc 60
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgctta tgtttgtgtg gatgatttct 120
 tcataattac ctgcgtcaac tttatcagag agaaattaga cacctctgta gtattcaagg 180
 agttgatgtc ctaagcttct aagagaaaaa gactgtgtga tctctagaat caagagtgac 240

gcatggccga gagtttgaaa acagcaaaat tactgtatac

280

<210> 4100
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4100

tgaaggtaaa ctanatgcct tagtaacctt taacccatct tccttgaatc agaaatctgt 60
acctgtcaca agagtctgtg gtttatgtct ctctgccgac caccacatag acctttgtcc 120
ttccatgcag caacctggag caattgagca gcctgaagct tatgctgcaa acaattacaa 180
tagacctctt caacctcaac agcaaaatca accacagcac aataattatg acctctncag 240
caacagatac aatccccgat ggaagaatca ccttaatctc agatgggtcta gcccttaaca 300
acaacaacag cagcctgtct cttincttcca aaatgttgct ggcccaagca gaccatacat 360
tcctccaccc aatcaacaac atcaacagcc ccagaaacag canatagttg aggctcctct 420
gcaaccttcc ctcanagaac ttgtgggcan atgactatgc aaaacatgca gttt 474

<210> 4101
<211> 204
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4101

agcttgtgga cccatgccaa gtgagtttca ttacaanatg gcaaagtggg gacaacatca 60
tcataacaaa aaaaatcttt cattcaatga taaacaagag aggtcaaaaag ggttggtatga 120
ccataaaagt ttgtcttgaa cagtcttatg accaccttaa gtgggagctt ttgcaggaaa 180
cctctactga cattggttgc ccta 204

<210> 4102
<211> 311
<212> DNA
<213> Glycine max

<400> 4102

cacacttcca atgaaaggcc tttctgttac aaaatttgaa atcaatgaag gtaagtaa 60

tgccaattac aaagttacaa aaaagtcctc aatttttggg ggttggtctc tctttggtgt 120
 ttcactcaat ttggagtgt tcttagtcca atagctctta aggtggttgg ccccttgctt 180
 cttgactcaa attctccaat tgatggcacc aatcctcatt tccaattccc tatatggcaa 240
 ctcacaaaca gggaaacaaa gagacaagca ataaccaaag accagaaaat gaaatgaaag 300
 ctaaaccaat a 311

<210> 4103
 <211> 196
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4103

agctntgaag atcttggaag caagatacgc acaatgagat aatgaacgat gcggctttca 60
 aaagccaatg aaccggcaag aagccttccg gtcattatcg cttgggttatt ttataccaac 120
 cggcgggcat catgcacaga gaagtccaat ttccaatcat cattcagtgc ccctctccat 180
 ggtacacctt cactac 196

<210> 4104
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4104

gctccaagaa tcaagattca agaataatca agtntacaga ttcaatcaag ttttaagaat 60
 caagattcaa gaataatcaa gatcaagatt caagaataat caagatcaag attcgagact 120
 caagattcaa gaaacaagag aagactcaat caagataagt actaaaaaaaa gttgttcaaa 180
 acattgagta gcacaggaat ntttcacaag atcttttacc aaagagttct actctctgat 240
 aatcgattac cttctggtaa tcgattacca gtagccagca ttgttttcaa aactgattta 300
 caaagttgtg attgattacc ataatcaggt aatggattac caatatctta aaacgtaga 360
 tttcaaattt caagagtcac aactagtgat aaaacatttt caaatcattt taaacttggtg 420
 taatcgatta aacaatactc gaaatcgatt ccagt 455

<210> 4105
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4105

agcttatgct ccanattagt cttgcagttg ttcttcaata tatttatcat ggatgcattt 60
 caatatgtta gtcgttttag atatttactc catagtttag tcttttgtaa ataataact 120
 aacaacatat caaacaacaa taacctcaat aaaattaaat atgtatttca ttgttcataa 180
 aattttaaaa catgaataac catgaatata atcgaagcta aatagacagt gttattttat 240
 aaagtatatt atatatttca atcatattag ttttggtctt catttagtaa gttctatata 300
 attacaatta tactatgtaa gtatctatga taactattat tgctattaat attcattttc 360
 tctcttctat atatgtttat cgtcatcacc gagaattagg gacaggatgg agacgatggt 420
 attgaacaag 430

<210> 4106
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4106

ctcttaggtc cttccaccag tatgaatgcc cnccttgaac acgatctgac tgaaaatcag 60
 acttggtccc atacttggaa ttgataatcc tggcccaagg ttgttgcaga tgagaagtta 120
 aggcccatat ccactttccc agcaaagcta tattaaattt agagatatct ttaatcccta 180
 gacccccctc agacttgggc aggcatacag tctcccattn tacccaagaa attttcctat 240
 ggtcttagtc cccccccccc ccataggaag ttcttttgaa ggctaccagt ttatttacta 300
 ccctttgtgg aatcttgaag aaggataata aataaattgg tacaacattg agaacaaaat 360
 tgattagagt tatctttcct ccctttgata tgnntttctg ggcccaactta gatagtttag 420
 actcatttct tttattaaag gctcccacac a 451

<210> 4107
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 4107

tttgcaagct ggaatcattt atcctatctc tgacagccaa tgggtgagtc ccgtccaggt 60
agtcccgaag aagaccggcc tcacagtgat aaaaaatgag aaggaggagc taattcctac 120
tcgggtgcag aacagttgga gagtctgcat tgactatagg aggctgaacc aggttaccaa 180
aaaggacat tttcccctgc cattcattga ccagatgctt gaacgcctgg caggtaaadc 240
ccactactgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctctgagga 300
tcaagaaaag accacattca cctgcccctt cggcactttt gcttataaga ggatgccttt 360
cggcctgtgc aatgcccctg gtacctttca gcggtgcatg attagtattt tcagtgaatt 420
tttagaaaat tgcata 436

<210> 4108

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4108

ctgagaagca tgtgatcctt tggcatcatc aaaacattca gcttgatcct ttgtctacaa 60
tcatcaaagt acaccatcac aaatttacca atgaattctc tcaaaacatg gttcattaat 120
ctcataaaat tgcttggtgc ataagtcaaa ccgaaaggca taaccaacca ttcatataat 180
ccatgtttaa gtttgaaagc ggttttccat tcatctcctt ctttaatcct tatttgatag 240
taaccactnt tcaaatacaca tttggaaaag aacaagcacc atgcaattca tcaagcaaat 300
cattaagtct aggtattgga tacctatatt taatggtaat attgtgtgaa gctctacaat 360
cggagcacat tcntcaagaa ccatctgttt ttggaaccaa caataccagg acagcacatg 420
gactcatgat atctcttacc catcccttac caatgagtt 459

<210> 4109

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4109

cagacaactn ntattttcgt acgaggcttt acaaattata ctatgacatc agtttaagtc 60

ttccatttct tatttatagt ttatgaactt atgaagaata tacaagtggg atgctaataca 120
 tatgtatgcc attgattaga tgaaactcaa aggaatttgg tagattggcc taagcgattc 180
 aacattatct gtggcattgc tggaggactt ctttatcttc atcaagactc aagattgagg 240
 attgtacata gagatttgaa aaccagcaat attttactgg atgcaaattt agatcctaaa 300
 atatcagatt ttggcttagc tcgaacatta tggggagatc aagtcgaggc aaacacgaat 360
 aggggtggctg gaacatagta agtctttatc tacattaatg tggtttggtc gattattctc 420
 acttaattnt ctttaaaatt gat 443

<210> 4110
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4110

agcttgtggg aatttgtgat agtgattntg ccggatatgt tgatgataga aaaagtacta 60
 tcggatttgt attttttatg ggtgattgtg tttttacatg gagttctaag aagcaaggca 120
 ttgtgacact ttctacttgt gaagccgagt atgtagctgc aacttcttgc acatgtcatg 180
 ccatttggct aagaagattg ttggacgaac ttcagttggt gcaaaaggaa agcacaaaga 240
 tctatgttga taatagatct gcacaagagc ttgccaagaa tccggtgttc catgaacgaa 300
 gtaagcatat agatgcaagg tatcatttca ttagagagtg cattaccaag acagaagtag 360
 aattgactca tgtgaaaact taagatcaag ttgcggatat ttacc 406

<210> 4111
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 4111

tgagactagg ccgcgaagca tgatgtcaac tagtgcttta tcttgtgtca acctatgatc 60
 cctgtcggat tgaatactgg aaggaattac atgcaacctt accacttgct gtgatgtcaa 120
 ctgtactagc ttatgcattc tatacttcat attcaccgta attaaatgag cgagattcgg 180
 tgaatcgatc tactatagcc cactcaacat catgcccatg actagtgtca cgtgaactaa 240

atacaaaatc catagatgtg ctctgccatc tgcattccga agttttacaat ggcttcggtg 300
 cctctgatgg tcgatggcgc atagccttaa ccttttgaca tggctaacat cttgctacat 360
 a 361

<210> 4112
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4112

ntgagaaaat tcaaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60
 atcgagtcgc tcgaaattga ataccgaagc gctgagcaaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgtaata tatcgaaaag ctcgaaattg aatgttgaag 180
 ctctaagcaa attcaaacga caaaaacttt ttactcggat gtctgattga gtcccgtaat 240
 atatcgaaaa gctcgatgt gaatgtagaa gctctgagca aattcaaaca acaataactt 300
 ttactcggga tgtctgattg agtcccgtaa tatatcgaga tgctcgacat ggaataccga 360
 agctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtg 420
 atatatcgag aagctcgaaa ttg 443

<210> 4113
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4113

tgcaagcttt aactcggatg tccgattcan gcgcataata tatcgagaca cttgatattg 60
 aattatagag gctctcgaga aattctaatt gtcataactt ttcacacgga tgtccgattc 120
 tggcgcatac tatgtcgaga cgctctaaat tgaacaaccg tagctcttca gaaattctaa 180
 tggtcataac ttttactctt gaggaccgat ttacgcgcac aatatatcga gacgctcgaa 240
 attgactaac ggaagcttcc tgagaaattc aaatggatcat aacttttaac tcagacgtcc 300
 catttaggcg cataatctat cgagacgctc taaattgaac accgaaagct ctctac 356

<210> 4114

<211> 239
 <212> DNA
 <213> Glycine max

<400> 4114

cttaatggaa gtcaagagca tgatattgcg cggataccgt tgactgggtga gcaggtatat 60
 cagcgggttc aacacctgaa cactgtatctt gggaagaccc aaaagaagga taaaagtcag 120
 agttgcatat ggaagaagag gtccattttc tttgatcttt cgtactagtg tgatcttgac 180
 ggtagacatt gtattgatgt tattcattac gacataaatg attgtgacct agtcattgt 239

<210> 4115
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 4115

cgaaggaaaa cttgatgcct cgggtcaacct agtaacttat cttgtcatga atcacaaaatc 60
 tacacctgtc gcaagagtct atggtctatg ttcttctgca gatcaccata tagatctttg 120
 tccttctttg cagcaatcta gagtcaatga gcaacctgaa gcttatgctg cagacattta 180
 taatagacct cctcagcagc aaaaccaaca atagcagaat aattatgacc cttcaagcaa 240
 tagatacaat ccagggttga ggaatcatcc aaatctgaga tggacaagtc ctccacaaca 300
 acaacaacct gtcctctcct tccagaatga tgctgggtcca agcaagccat atgttgctcc 360
 tccaatacag cagtagcgac aatagcaaca acaaagacaa caagcaactg aggccct 418

<210> 4116
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 4116

agcttcaaca tcagaccact ttcagggtgt ggaactactt cacatggact tgatggggcc 60
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttggtg atgatttctc 120
 cacatttacc tgcgtcaact ctatcagaga gaaatcagac acctttgaag tattcaaaga 180
 gttgagtcta agacttcaaa gagaataaga ctgtgtcatc aacataacta cgagtgaaca 240
 tggcagagag tttgaaaaca gcaagtttac tgaattctgc acatctgaac gcatactta 300

tgagttctct gcagccatca caccacaaca aaatggcata gctgaaagga aaaacatgac 360
tctgcaagaa gctgctacgg tcatgettca tgccaaagaa ctttcctata atctctgggc 420
tgaagccatg 430

<210> 4117
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4117

agcttgacat ataaattatc taattattcc aattctctca catcatacaa ttgcttaatc 60
aaagcaatct caaacattca ttttatgcta aacaatgcac tgcataatcat ctttaataca 120
ttcactattc aaacacgctt tacgcacaac gcaaacaact caaagtgctg aaatttaa 180
aactgaaata aaataactga aatatgacaa ctaaactagc tggaaatata aggtgtttaa 240
ccttcaccaa aacatcttca atgactctat atgggtctgt gatggagngg tcaactaact 300
ggaggggtcat gcgtgtgggc attatctcta tctctccaag cccgcggcac atggaaagaa 360
gcattatata tataactaact cccaagacta tgagagcttt gcctaccaca acct 414

<210> 4118
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4118

agcttcaatg gatcttacat catgtggtat cagagtctta attaaataaa attaaattga 60
atttctagaa gcccaatcca attaaatttt agagggggag gtgagcattt ggttactaca 120
cctcattgcc acattatatg gtcacacggt gtgcatgtcc ttcattgttt acatgcctca 180
tgccacctaa gcacacttag tggagaatct tggaattgat cttggattag tgggctgaac 240
cataactaaa attcactaat cataattagt gaaattttgt ctccaaagtt tgggtccaca 300
aattcaattt caaattcaag tgaaatttga attgaaattc aaatttcctt ccaattttgt 360
gtgacactta cgctataaat agaggtcatg tgtgtgcatt ntttcaactc tgatcatttg 420
aaaattaaac ttttagatt 438

<210> 4119
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 4119

tacataagtg ccattagaat ttcaatacaa acaaacttta tccatttttaa tttttggtat 60
 ttgatcacgt attctgcaat tgattaagaa agcacaaaat gaccagtagg cattgggtgt 120
 aggcaataaa tttgtcgaag acaaaattta actgaatgtt tgtcttaata tgggtccaagc 180
 aatacagatt ctttctgtct gtctgtggat accatgaatg cgtgtcttaa tgtgggtccaa 240
 gcaatacaga ttcccttttgc acttatcccc cttcttattt tgggtgtccaa agaggagggtc 300
 atggggacct tcagaatagg gcctacggta aaggtaagca aggtctccat catttgatca 360
 tatggctggg agaaaatgat acaaggttat tcttgtatgg ctattatagc aaaaggatag 420
 atgcatgcac a 431

<210> 4120
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 4120

agcttggtta ccccatgttg aatttgctta caatatagtt gttcatagca ccactaattg 60
 ttctgctttt gaagttgttt atggttttta tccactaact cctcttgatc ttttgcctaa 120
 gcctaattgtt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgatgaa 180
 gttcatgag agagtcaaag atcaaattga gaggaaaaat aaaagttatg ctaaacaagc 240
 caacaaaggg agaaagaagg ttgtcttcca acccggagat tggctttggg tgcacatgag 300
 aaaagaaagg tttccggaac aaacgaaatc acagcttcaa ccaaggggag atggaccatt 360
 tcaagtgctt gaaagaatca atgataatgc ttacaaagtt gagcttcccg gtgagtataa 420
 t 421

<210> 4121
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4121

acacttaaaa ctcaagctgt gcttaacttc cccatagact ctctcataag cttttaattt 60
tacccaaaaa gacctacctt cattgaagac acaaaggaag gtggtaaccc caaagcttgg 120
tcatagcaaa ccactttgca tgccaaacat gagttctcag cctcttggtt acatccctag 180
aagtgcacaaa accattctct aggtttttct ttagttcata tctccgatga acacatcgag 240
gaagcttctt ttggtgattc tcttccaaac ctgatttggc aagggttcta tcaattattc 300
ccagtttctg cctctttctt ctgcaccctt ttcttgcaat tcggttatca aacacaattg 360
tctttcttct ctgtttcttt tgagacctat aatcattgnt tactctattt tctatgatag 420
attgaagact atggagtctg agagca 446

<210> 4122
<211> 442
<212> DNA
<213> Glycine max

<400> 4122
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actccaattt tgatgaagat gaaggttgtg agataaggct ttgactcact actccttctt 120
cctttccctt gatcatgcca aatgattttc caacctctga atgccaaagt tgaagaaagt 180
gatcaggcca tgttttactc gttggccatg aattgagcat tgtggattcc aatgacaacc 240
ttgcctctgt ctcaactctc acactctccc actgtaccat gtgccgcgtc gaaggagatt 300
cggacttgac aatggattga tcaggaatca cacatagctg ttttgctctt tgggaatgac 360
atgatcgaag gagacgcttc ttagatggg tgttcagaa gttcttaatc tcattgtctg 420
ttcttccagg tagttgagat gc 442

<210> 4123
<211> 410
<212> DNA
<213> Glycine max

<400> 4123
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ggtgctgcca atgtgctcaa atccgtctat aagaacttgc taagccatga aaactcctca 120

cctcggtcac agacttaggt gtaggccatt cttgaatagc actaaccttg tctcatcaa 180
 cttgcactcc ttgtgaactc acaacacaac ctagaaacac agcatgggta gcacaaacaa 240
 tgcatttatc aagattggca tacaattggt cttgtctaga cacagtcaag acagatttta 300
 aatgatcaat atgcaaata agtgcagtgc tatagataag aatatcatca gagtacacca 360
 catcgaactt tctatgaac tctctcaaga tatggttcat tactctcatg 410

<210> 4124
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 4124

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 caacttgtag ccaaggggta tactcaaatg gaaggattgg atttccttga tactttttct 180
 ccagttgcga agtcacaaac agtctgatta ttgtagcat tggttgctat tcatgggttg 240
 caccttcgtc aactcgatgt tagcaatgca ttccttcatt gagaattaaa tgaagaagtc 300
 tatatgtagc tgctccagg aatgcaagtc tcacacccta atcaagtttg tcgattacaa 360
 cgatcacttt atggtttgaa atagactagt cgacagtggc ttcattcgatt gtcctcattt 420
 cttcttactc atggtttcaa tcaagctt 448

<210> 4125
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 4125

agcttcaacc gtatcccata actcggcaag ggacgttaaa tgttattccc actcagatcc 60
 aacagtgtca aagatttcaa actagtccaa ttactcggtg tcgtaccact aatatcatta 120
 cctccaacc ttatctcaac aagagaatct aacttggcaa cagaaggact cacagtccca 180
 ctaagattaa acttttccaa aataatcatg tccaccttcc cgtcccccatt gcaccttate 240
 cccaaccatg gcccgtaga agggtcattt ccaactccaag aatcaaccaa aatccaagga 300
 taccccaacc ctccaagaaa ctccaacaac accatcactt caaaagcaca cataaccccg 360

gcctttgcct cacaaaattc attgtttctca taactcactt tactcgctgc aaattccggg 420
atcggaccca tgaagt 436

<210> 4126
<211> 438
<212> DNA
<213> Glycine max

<400> 4126

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ttgtggagtg gatcccacct caagagttcc aatcttacat acggagagaa gatcagtgga 120
agactcaatg acatataagc atctttatag gttgatgagt actctctttt ccattcttcc 180
attctacttt tgaccaagga tagttgacca tattcctcag aagcatcact gaaaatctca 240
tcagcagcct gcagcaccaa atcactttgt gactgatatg cttggctctc actatcactc 300
tcatcagtgc ttgattcacc ttctatttta tgatcatccc attccatgga tgtgacctta 360
ttataaccaa atgctagtga cctcttgcggt tgacaagcct cggccctcac tttcatattc 420
attcgtttct caagattt 438

<210> 4127
<211> 449
<212> DNA
<213> Glycine max

<400> 4127

ctatgtgtct tctttaaata aagaattggt ggtaaagacc ccaactagtg gttttgtggt 60
aacttcta atgtgtttga attgtcctat ggaaatttcc agtagagcat tcttgattga 120
tctgatttgt tttcctttga gccaaattga tgttattcta ggtatggact agttatcttc 180
caaccatgtc ttgttaaact attttgatat aactgtggtg tttgatgggt cttgagtaag 240
taaggatatg atgtttatct ttgccaacca agttatgaca tctttaaaag aagatgctca 300
agtgcacatt atcttgtcta acctggaaat agagagagag gtttccatgt gtgacctccc 360
tgttgtcaga gagtttcttg aagtgttccc taaggatata tctggtttac gacccgagag 420
agagatagag ctctccatag acctagtac 449

<210> 4128
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 4128

tcttagtctc acctgatgaa gatgaattcg tggctacttc atgcactcct ctaatgaaaa 60
 tagcatcatt tctggcacta aattgttggg acttgggaagc catcttctca attaaatttc 120
 tggcttcagc aggggtcatg tctccaaggg cttcaccact ggcagcatct atcatacttt 180
 tctccatgtt actgagtcct tcataaaaaat aatggaggag aagctgctca gaaatctggt 240
 ggtgagggta actagcacat agttttctta atctctccca gtattcatat aagctctctc 300
 cactgagttg tttaatgtct gaaatatacct ttctgatggt cgtggtcctg gaagcaggga 360
 aaaaaatttc taagaatact ctcttgaggt catcccagct cgtgatggac cgtggagcaa 420
 ggtaataaag ccagtccttt gccactccc 449

<210> 4129
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4129

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 gtaccattt tacgataaag tcacatcagc tggaggcggt gaatttgagg atggaattga 120
 aaatattgac atcgggtggtc ccgcatgat tagagctgct gcaaagggtg gtttatttga 180
 ctaaaaatgg aaattcccta acgttaaata aatttgaaat gatgacaaaa acttcccccc 240
 tccaatcgt cactacttaa aaagttttgt aaaatggctc agaaaataat cttttggcca 300
 aataccacca agggcctaaa ctactgtgga aagtaacagg acctttgttc attgcatacc 360
 ttctttgagc taactataag gtgataaatt cttatttgag tacaaccaca aggatgtttt 420
 ggtagtggtt gatacagaag actaccctgc ccttctggaa t 461

<210> 4130
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 4130

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tgtcggtggg ttataagat taagtatcat gctaattggc cgttgaacg atataaggct 120
caacttgtag ccaaggggta tactcaaag gaaggattgg atttccttga tactctttct 180
ccagttgcga agctcacaac agactgatta ttggttagcat tggttgctat tcatgggttg 240
caccttcgtc aactcgacgt tagcaatgca ttccttcacg gagaattaaa tgaagaagac 300
tatatgtagc tgctccagg aatgcaagac tcacacccta atcaagtttg tcgattacaa 360
cgatcacttt atggtttgaa atacactagt caacagcggg ctcac 406

<210> 4131

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4131

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aacaatgtca aagatttcaa actagtccaa ttactcggtg tcgtaccact aatatcatta 120
cctcccaacc ttatctcaac aagagaatct aacttggcaa cagaaggact caaagtccca 180
ctaagattaa acttttccaa aataatcatg tccaccttcc cgtcgccatt gcaccttacc 240
ctcaaccatg gcccggtgaca agggtcattt ccaactccaag aatcaaccat aatccaagga 300
tactccaacc ctccaagaaa ctgcaacaac accatcactt ganaagcaca cataaccctt 360
ggctttgcct acaaaattca tgctcttata actcactata ctgctgcaa attccgggat 420
c 421

<210> 4132

<211> 430

<212> DNA

<213> Glycine max

<400> 4132

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tcttctattt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcacg 120
cctcttaagt gcagatgtcc aaatcttga tgccatattc tgacttcacg ttctttggag 180

gatagacatg tggaggagta gctgggttct tgaggtgtcc ataggtaaca gatgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgcagtc 360
 agtcccttca ccagtagtac tttgttcaga ctacgaagtc catcatgagc tagctttccc 420
 attccaatga 430

<210> 4133
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4133

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 agatgaatcc ttcaagaatg agaacaattg ctgagctgct ggagcaatct ccaatattct 120
 aaatgtttta ttgaattagt catatatcac tcattacttc aattgttcaa aaacatgcat 180
 taagttgtgt tactaactaa cattagctga tagaatataa aaaaaacaaa atgtgtcact 240
 aactacctag ttggagataa ggttgaaaga tatgaacaaa ttaaacggct tacttcttga 300
 aaaaatatag accgagttct tgagaattct tcttcatttc gttccatgat ttcaccacca 360
 gagcttcgtg ctcttgctg agacctttgc cctccatgtt ctctactctc tagctactag 420
 ctaagatcgg tatatatga 439

<210> 4134
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4134

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 ctcagtctca tgggcttttt tggattatat gctgcaaaga atggggttttt gtcccaaagt 120
 gagacactgg atttctgcct gtcttaattc agcaagcatt tctaaaagat gtccaggttt 180
 aattctctga tttgacgcta gtcaacaaat tgtttctgac aagtcacaa gctaacaagc 240
 ttgtaaggat tctaccgaaa tcattgtgat tgaaaggaaa agataataga aagtaaatat 300

gatgctagga caacaaatgg ttgtcatttt gagatgatta atacactggc ttagtacttc 360
aatttattct ttagaaccaa taaggagact gagtatttta aagtaaaaat acagaggact 420
tctatatattt ggaacatga atg 443

<210> 4135
<211> 427
<212> DNA
<213> Glycine max

<400> 4135

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aaaaagcact accggatttg tatgtagtat gggagagatc acccgcatgg aggaatacac 120
accaggcggt gaacgctttc taaacgggaa gccgatcttg aaacatgcaa cgttcggttg 180
acaccgtcag agcctcttag tcgtgaaaaa gaatggcagt agtgaacatt catcttggtta 240
gcgcaaggaa agaccgagcc atctatagat gataatagac ctgcacaata tcttgacaag 300
aatacgggtg tacatgaacg aagtaagcat atagatgcaa ggtatcattt cattagagag 360
tgcattacca agaaagaagt agaattgact catgtgaaaa ctcaagatca agttgcggat 420
attttca 427

<210> 4136
<211> 346
<212> DNA
<213> Glycine max

<400> 4136

tatgttgatg atacaaccag tactaccgga tttgtattat ttatggagag aatgtgtccc 60
tacatggagg tctaatacac aacgcattgt gacactctgt acttgtgaac ccgagtatgt 120
acctgcaact tcttgacat gtcatgccat ttggcttaga agagaggcgg aggaacctca 180
cttgtggcaa aaggaaagca caaagatcta tgttgataat agatctgcac aacagcttgc 240
cacgaatccc gtgctccatg aacgaacgaa gcatatagat acgaggtatc atttcattag 300
agagtgcctt accaagaaag acgtagaatt gactcatgtg aacact 346

<210> 4137
<211> 443

<212> DNA
<213> Glycine max

<400> 4137

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ggaatggtca acaatatggtt atatcattta tagacgatta ctccacatat gcatacttgt 120
ttgttatata tgaaaagtca caatctctgg atgtgttcaa aacatctaaa gttgaagttg 180
aaaatcaact catcaaaaga atcaacagtg tcagatttga cagtagtggt gaatactatg 240
gcagatatga cggttcaagt gaacaacttc cgaggccttt cgccaggtag ctagaggaat 300
gtgaaattgt cccatagtag accatgttgg agtcacctaa catgagtgat gtatctgaaa 360
gatgaaatag aactcttaat gatatggtga gaagcatgat ttgtccttct aacttaccag 420
agtcactctg gggagaggca ctg 443

<210> 4138
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4138

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aaacctccaa tctttaatgg agagggttac cactactgga aaaccggaat gcaaattttt 120
attgaggcaa tagacttaag tatttgggaa gccatagaaa tagggccata tatacccacc 180
acagtagaaa gaattacaac agatggtagc acatcaagtg aaagcataac aatagaaaaa 240
cctacagata gatggtctgg agaggataga agacgagttc aatacaatca aaaagccaaa 300
aacataataa catctgccct gngaattgat gaatatttca gggtttcaaa ttgtaagagt 360
gctaaggaaa tgtgggacac tctacaatta acacatgaag gaactacaga tgttaaaaga 420
tct 423

<210> 4139
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4139

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 ggtattccat ttcgagcggt tcgatatatt acgggactca atcgaaacata cgagtaaaaa 180
 cttgttgcgt tttgaatgtg ctcagagctt caacattcaa tttcgagcgt ttcgatatgt 240
 tacgggactc aatcgacat ccgagtaaaa agtaattgtc gtttgaattt gctcagagct 300
 tcggtattcc atttcgagcg tctcgatata ttacgggact caatccgaca tctgagtaaa 360
 aaggttattg tcgtagaat ttgctcagag cttcaacatt caattntgag cgttcggata 420
 tattac 426

<210> 4140
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4140

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 ttgattaggg ccttgcaatt tagtttcata ccgaggcggn ggaccaaaga taatgcta 120
 attctttatg aagtgggtgca ccatatgagg atgtccaaaa ggaaacaaag agatgtggtc 180
 ctctagttgt atcttgagaa ggcctatgat aggggtggatt aaggcttcct caagcagact 240
 cttcagcttt ttggttttct tgaagttatt gtctccctaa tcatgcacga tatttcttcc 300
 actagcatct ccatttggtg gaacgacaat aagcttgagg gatctaccct agtaagggga 360
 ctcagaccag ggatccctta tctctatata tttntgtctt gggtatgaag tgctttggag 420
 ccaagaacaa caaggagggtc catgagggta actggga 457

<210> 4141
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4141

gtgtcagaga aagaagtgc aatgaacaat agttataact tatgtgaagt taattagttg 60
 aatttgacag ttaccaaga attaaacgac ataatttcag ttgaagagat agaccaatat 120


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aaaacttctt gtgcctaatac tttttgtctt ccttaaagtt ttaaacttgg gcaaaagatg 180
tgaatttggt tagatatctt gtgtttctaa aaacatttac ttcactaat agatttttca 240
gaaaaatcat ttatttgttt ttaacaaaga accatcggat gagggctttg tttttaaaag 300
gaaaaaagtt ttaaattttc taaaatcata attcaactct ctttcttata atattagtct 360
ttacatacat acagatcaat aatagtcaca atgcgatccc acaaagctaa tggagaaagt 420
gtccataggt naatgggtcta ttatgtttta ct 452

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tgangcacgt	aagcttgcta	agatacatgg	cccaataatg	agcctattgc	tgggacaaat	60
aaccactgtt	gttatgtctt	cagcacaaat	gcccaaatag	gtgcttctaa	ccaatggcca	120
attcttgtca	aaccgaacca	ttccccaatc	tgtgccagtt	ctaaactatg	aacaatacaa	180
ccttgctttc	atgcccatTT	cacctctttg	gaggggaactc	agaaaaatat	gcaacactta	240
gttatttgcc	cataagtctc	ttatgctagc	caagacgtta	ggcgtaagat	agtgcaataa	300
ctagtctccg	atatacatca	aagcagacat	attggtgaag	cagtggatat	tggcacaaca	360
acattcaaga	ctaccataaa	tcttctatca	aacactatTT	tctctgtgga	tttgattcac	420
tctacaggta	aagcagaaga	gttgaaggac	ttggtgacca	atatac		465

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gaagtgaacc tcggatccct gtcggataca atccttgaag gagattcatg caaccttacc 60
acttccttga tgtaccactc tactatcttc tacattctat acttcatatt caccggaata 120
aaacgaaccg atttggtgag tcgatctact ataaccaca caacatcatg cccatgacta 180
gtc 183
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<210> 4144
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4144

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 aaaggaagct ctcgagaaat tcaaattggc ataacttttc actcgcatgt ccgattcagg 120
 cgcataacat atcgagacgc tcgaaattga acaacttgat ttctcgagaa attcaaattg 180
 tcataacttt taactcgcat gtccgattca ggcgcataac atatcgagac gctcgaaatt 240
 gaacaacgga tgttctcgag acattcaaatt ggtcataact ttctactctc atgtgctgatt 300
 caggcgcata acttatcgag acgctcgaaa ttgaacaacg gaagctctcg agatattcaa 360
 atagtcataa cttttcactc gcatgtccaa ttcaggcgca tagcgtatcg agacg 415

<210> 4145
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4145

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 aatatatcga gacactcaaa agtgaaacca aaagctctga gccaaatcaa atgacaataa 120
 ctttttactc aaatgtctga gtggggggccg tggatatatcg agacgttgga aattcaaaat 180
 agaagctctg agcaaaatca aacgacaata aattnttact gggatgtccg actgtgtccc 240
 atagtatatc aagacgctca aaattcaaaa cagaagctct gagcatattc aaacgacaat 300
 aactttttac tcggatgtcc gaattaatcc cgtaatatat cgagacactc gtaattgaaa 360
 atggaagctc taagcacatt ctaacgataa taactcatta ctcgga 406

<210> 4146
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4146

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 cgcagtattg tgagtagcat tctgaaagat gcttctgtgc ctgatgctga gaaagatggt 180
 ccaacatctt ccacccaag tgtttccgtg cctgatgctg agaaagatgt tccaacatcc 240
 tccgctccaa atgctgaagc cctcccgta cccagtgaag aggaatcaac agaagaagag 300
 gatcaagcct cagaggagac tctgcacca cgggcaccag anactgctcc aggtgacctc 360
 attgacctgg aagaagtcga atctgatgaa gaaccattg ccaacagggtt ggcac 415

<210> 4147
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4147

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 actccaattt tgatgaagat gaagggttgg agataaggct ttgactcact actccttctt 120
 cctttccctt gatcatgcga aatgattttc caacctctga atgcaaagt tgaagaaagt 180
 gatcagggca tgttttactc gttggccatg aattgagcat tgtggattcc aatgacaacc 240
 ttgcctctgt ctcaactctc acactctccc actgtaccat gtgccgcgtc gaaggagatt 300
 cggacttgac aatggattga tcaggaatca cacatagctg ttttgctctt tgggaatgac 360
 atgatcgaag gagacgcttc tttagatggg tgttccagaa gttcttaatc tcattgtctg 420
 ttcttcagg tagttgagat gctatagaag cccacctaag tgaatac 467

<210> 4148
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4148

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 ctcacctctt ttacttttgt ttccgtgcat ctacatgggt gaaaatcacc attaaaggac 120
 cccattgaag ctaaaaaatt cagccttcat agaagcccca taagcaagct tccatcacia 180

aggacttcac tgatgaagaa gatctaaggc ctacaagctc cacatggagc tatttcagag 240
gttgacaaag ctaacgtgga agtcattgaa aaattaccac caccagcaaa tgtcaaaggc 300
atcagaagtt ctttaggaca tgttggattc tacaagcant tcatcaaaga ttattctaaa 360
atttccaaac ctttgagcag atctttgaat caagaagtgt catttcattt tgataattat 420
gtcttaaagc tcttgatact ttgaaac 447

<210> 4149
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4149

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aagtggagct caagaagtct tttcaggagc aactntgaca tgcaactaat gcctatgaat 180
ccatgttgag gcaaaaggct agagtgaat ggtaaagga aggggacaga aattcagctt 240
acttcataa actgataaat cacagaagaa gacaaaatgc tatacaaggc ttgatcattg 300
aaggggggtg gggttcaggac cctagtaggg ttaaaaatga cgctcttaat cattttaaag 360
atagattctc tgagcagaat cttaacagac caacntaga tgggtgtgcaa ctaccttccc 420
t 421

<210> 4150
<211> 307
<212> DNA
<213> Glycine max

<400> 4150

tcaattacga gcgtctggat atattactgg actcaatcgg acattcgagt aaaaagttat 60
tgttatttga atctgctcac agcttctgta ttcaattatg agcgtattga tatattttgg 120
gactcaatcc gacatacgtg gtaaaagtta ttgacgcttg catttgctac gagcttccgt 180
tttcaattac gagcgtctcg atatattacg aaactcaatc caaccgtcga gttagaagtt 240
attgtcgtat gcatttgcta cgagcttccg ttttcaatta cgagcgtctc tatatattac 300

cggactt

307

<210> 4151
<211> 337
<212> DNA
<213> Glycine max

<400> 4151

ctccatgtag caactaacaa atccaatcgc ataaagaata tcaggccttg tgcattgttaa 60
gtactgcaaa tttccaacta agctcttaaa gagggtcgga tctatccttt cttcctactc 120
atgctgtgat agcttgattc cacattacat tgggtgtgtg acaggatcag agacatccat 180
cttgaactcc ttaatcactt ccgtagcatg accttctcga gtgatgaaaa tgtatctatc 240
ctatcactct agttcaatgc caaggtagta agacatgaga ccaagggtcaa tcattgcaaa 300
ctctgccata attccttggt taaattcatc gaacatg 337

<210> 4152
<211> 448
<212> DNA
<213> Glycine max

<400> 4152

agcttatgct gcaaacattt acaatagacc tccttttctt cagcagcaaa atcaaccaca 60
acagaacaat tacgacctct ccagcaacag atacaaccct ggatggagga atcacccctaa 120
tctcatatgg tctagccctc agcaacaaca acaacagcct gttccttctt tccaaaatgt 180
tgttggccta agcagaccat acattcctcc accaatccaa caacagcaat agccccagaa 240
acagccaaca gttgaggctc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300
tatgcagaac atgcagtttc aacaagagac cagagcctct attcagagct taactaatca 360
aatgggacaa ttggctacac aattgaatca acaacagtcc cagaattctg acaagctgcc 420
ttcccaagct gtccaaaatc cccaaaat 448

<210> 4153
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4153

gagctcatat atactcgagat gctcgaaatt aaacatcgga agctctcgan gaaatcaatt 60
 ggtcataatt tatcacactg atgtccgatt cgggtgcata atatgtcgag acgctcgaaa 120
 ttgaacaacg gaagctctcg agaaattcaa atggctataa ctcttcacac agatgttcga 180
 ttcaggagca tcacatatag agacgctcga acaacagatg cactcgagaa attaaatggt 240
 catagctttt acaccagtt ccgagtcacg cttatgatat attgatacgc tcgagatcaa 300
 catcggaagc tcacgagata ttcaaattggt cattaactttt cacactgatg ctcgagtatg 360
 gagaatgccca ttattagatg ctcaaaa 387

<210> 4154
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4154

tagatagaca atacttcatt cataacatca aataaactat tttagtcac cacaatattc 60
 aaataaaaca tatatgaata attaaaaaaa aataaaacaa aatacctaaa gtaagtacat 120
 accactagtc atatatcatt aaagtaatta agttttaaac acataatcat aaacaaccaa 180
 gagcaagtca atataatcat catgttcagt cataactaagc aagtattaaa agaaatacta 240
 agtattcaaa tttcataaaa acatagccaa atacaaggct taaaaacaaa atataattat 300
 aatctaaatc tattatcaga gaatcaaac ttaattctaa gtaacaaaaa ttagttatga 360
 acacatacat ggtaactcat tacttatctc aattatttta gcatatcaat ataattctga 420
 caaaaatcca atcatgtcan atcatanata aatgggataa catacaataa at 472

<210> 4155
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 4155

tatagcttca tcaagatgag cggagggaca gggagatata gatcatgccca ttatatgcct 60
 cacacgaggt ctgaacattg aagcataatt cctaaatgat cgaagttgat aaaaatacac 120
 acatatgatc tctatttata gcttacgtgt cacacaaaat tagagggaaa ttcgaatttc 180

tattcaaatt ctacttgaat tggaaatcga atttgtggag caaaatttc actaattatg 240
attattaaat gctagctatg attcagccca caaattcaag atcaagctca agattctcca 300
ctaagtgtgc ttaagtgtca tgaggcatgt atagcatgaa tgacatgcac aaagtgtgac 360
tatatgatgt ggcaatgggtg tgcagcaagc aaatgctcac ctccttctct 410

<210> 4156
<211> 435
<212> DNA
<213> Glycine max

<400> 4156

tctgttttct attgcgagcg tctagatata ctacaggaca caatcgtaca ttcgagataa 60
aagttaatgt cgtttgaata tgctcagagc ttcggttttc aatttcgagc gtctcgatat 120
actacgggac tcaatcggac atccgagtaa aacgttatta tggtttgaat ttgctaggac 180
ctactatttt caatttggag catctcgata tattacggga ctcaatcgga catctgagta 240
aaaagttatt gtcgtttgaa tatgctcaga ccatatgtta tcaatttcga gcatcacgat 300
atactatggg acacaatcgg acattcgagt aaaaagttat tgtggtttga attcgctagg 360
agctactatt ttcaatatcg agcatctaga tatattacgg gactcaatcg gacatccgag 420
ctaaagctta ttgtc 435

<210> 4157
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4157

tctgctntga gcaaattcaa cgcacaataa ctcttatctt ggacgtcaga ttgagtccgg 60
taatatattg agacactcga aattgaaaac agatgctttg agcaaattca aacgacaata 120
actttttact aggatgtccg gttgtgtccc gtagtatatc ggacgctcg taattgaaag 180
cggaagcttg tagcaaattc aaacgacaat aacttttaac tcggatgtgc gactgagtca 240
cgtaatatat cgagacgctc gtaattgaaa atgttagctt gtagctaatt caaacaagaa 300
taactttcta ctcggatgtc cgaatgagtc tcgtactata tcgagacgct cgaaattaga 360
gcagatgctt tgagcaaatt cataagacaa taactgttta ctcggatcgc cgattgag 418

<210> 4158
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 4158

tctttgcatg aagcaccacc tcattagaga cacaagttaa tagcaacaac aacaataatg 60
 cagaggaaga ttaaccttga aatggaagaa tgccccattt tggttcctac taaatagagt 120
 gaacgtacaa tgtcatgttt catcattggg gactttgaaa atgcgcatga ttcggtttct 180
 tggggccttc taaattacat gttgatgagg atgggatttt gtgaaagatg gaggaaatgg 240
 ataaatgttt gtatgtctac tgcaactata tccattttaa ttaatggaag tcccactagg 300
 gagggatgatc ccctaagaga ggcttaaggc agggatgatc cctaccacct ttgcttttca 360
 atatagtagt ggaaggcctt acaggctctga tgaacacagc catatctaag atccttttca 420
 gcagcttcca agtgggaagt cacatgagga agttacatac 460

<210> 4159
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4159

cataatatat cgatatgctc gaaactaaac atcggaagct ctcgagaaat tcaaattggtc 60
 ataacttttc acacggatgt ccgattcggg tgcataatat gtcgagatgc tcaaagttga 120
 acaacggaag ctctcgtgaa attcaaattg tcataacttt tcacactgag gtttgattca 180
 ggcttataat ataacgatac gctcgttaagt aaacatcgga aactcttgag aaattcaaatt 240
 ggtcataact tttcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 300
 ttgaacaaca gaagctcttg agaaattcaa atggtcataa ctnttcacac ggatgtccga 360
 ttcaggcgca taatatgtcg agacgctcga aattgaacaa cggaagctct cgagaaattc 420
 aaatggatcat aacttttcac acggatgtcc gattaggcgc atcaca 466

<210> 4160
 <211> 314
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4160

acatccgaga ganaatctat gactatttga atttctcaag agcttccgct gctcaatttc 60
tagcttctcg atatgcgacc cgctgaatc ggacatccgc gtgacaagtc ataccacccg 120
acattctcaa gagcttcccc ggttcagttt tcgacgcctc gatatgtgat ctgtctgaat 180
ccgacatccc ggtgaaaaga tatgaccatt tgcattcttc aagaccctcc gctgttaact 240
cccagccctc cgcatattat gcgaccgaat cggacatccg cgtgaaaagt tatggccatc 300
tgaatctcct caga 314

<210> 4161

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4161

tgaagggtgtg tagcccatca tcttttcata gtagaatact ggtaatgtgt ctactatcat 60
tggatcatt nttttcttcg tcattgaggt gccacttgag ctgccaagtc tctccacctt 120
tgggcgtatt cttttgaaag attcatgccc cttttttgca catgttctgt agttgcatcc 180
tatccgaaga cattatactg aactgccta acaaaggaaa ccactaggtc cttccaagaa 240
tggactcggg aaggggtcaa gtttgtgtac caagtaacag ctacccagtc aagactttct 300
tggaaggaat gtatcagcaa ttcctcatct tttgtgtatg ccccatctt cccgatatac 360
atctt 365

<210> 4162

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4162

cgccaaagag catgtntgca gccaaagaaa gttgctgaag ctctgaatct ctgaggtaga 60
agttacttgg aatgctacct gtcagagcat tatcagacta ttaagctcag aaggaatttc 120
tccatgtagt ttgtttccaa ccaaattcag gtatgtcaag ttagaaagat gactcaaagc 180

tgttgggatt gatccagata aactgttatt ggccaaattc agaattttca aagattttaag 240
 agatcactta gaggaaggta agtctttttc aagcatgttg tttgatgctg caaagttttg 300
 gagctcttca caaccttcaa tctcttcagg tatgtggcca ttaatgctat tcatttgtac 360
 atcaagagat attagatgc 379

<210> 4163
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4163

tttagcctag ctctggggac atttgactgc ttcactgac ttacaagatc tgcttcttta 60
 ttttagaggg ggatgcctta acagcacttg caatgatttt ttcatgcctc ttttaagtgcc 120
 agatgtccaa catcttttga tgccatattc tgacttcac tctcttgag gatagacatg 180
 tggaggagta gctggtttct tgagggtgcc ataggtaaca gctgtccttt gatctgctgc 240
 ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt gtgaagttta 300
 cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgagtc agtcccttca 360
 ccagtagtac tttggtcaga cntatgaagt catcatgagc t 401

<210> 4164
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 4164

tagtaaagct aagcactaac aatctcccc tgtggcaaatt tttgtctaaa acatacttaa 60
 acatttctg agcatgtacg agcagttatg caagtgggat cagcaacttc cattatcaga 120
 gtaatcaagc acagcggaaa ttctgtaagt tgcaagtcgt ttccaggatg tcaagacatc 180
 tcacatgaca tcagctttct gcttctgcat cccctgtctc catgcttact gcaacatctt 240
 ttaacagcta ctagtcttct ccaggatgtc aagacatcta ctgtgacatc agctatctgc 300
 tccccctgtc tccatgtctt tactgcagca tcttctagta gctttcatca gtcacatca 360
 gcagcagcag tctccccctc aaaatcgat acatacaact cccctcaaa atcatgaatc 420

atgcatacat cgtattctac tac

443

<210> 4165
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4165

ttacggacac ttaaaactaa gctaacaagc ttntttatag tttgagcctt gaccttttat 60
ctaaagagac tntaaaaagc ttgagcttgg cctttatgat aaacaagtca agccgagctg 120
agccttacat aggccgagcc aaaggctctc gacaagctgc tcggctcatt tccacccta 180
accctatagc aaaagttggc atcttcagtg atgaatgtcg ttttctcctc gtttgagca 240
tgcacctga tttggttgta tttggagtaa gagtccaaga agtttagcac ctggaatcca 300
gacaatccat cgactagctt gtcaatgctt gatagagggt atgcatattt agggcacgcc 360
ttgttcagat cagtatagtc agtgcacatt tgtcatttgt cgttggcctt tttgaccatg 420
acaatgttgg cgagccangt ggagtatcta acttctctta tgaagttggc attgagcagt 480
tatctac 487

<210> 4166
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4166

tagcttgcta acccatggaa gctcctaata tctccttact ntntgggggtg ggccattctt 60
ggatggcctt tattttctca tgggtccactt ggacccatt tctaccaact acaaaaccta 120
aaaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgttt 180
tcctaaggat tgaaagaact tgcctgagat gtcctaagtg atcatctaag ctctactgt 240
acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttagacat 300
gatgcataag cctcataaag gtgcttggtg cattagtgag cccaaaaggc atcactgacc 360
attcatacaa accaaaacttg gtcttgaaag ccgttttcca ctcacaccc tttntcatcc 420
tgaattggtg ataaccactt tta 443

<210> 4167
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4167

cgatgcacaa tttcattgaa gagacaaata ttacaatatg tattttaacat gtatataaaa 60
 tgttgagata aattataaag actaagagaa gaattatgac aaaaaaaatg agatgaaaag 120
 tattggagtt atgattatga tcatgtcgag ctttgcacaa gtaacaatg tacctattaa 180
 atttggttgt gattccaaat gttgagaaaa atgtctagat tcaatttcca tttttccata 240
 tcaagtgtgt ttttgcattg gtatgaaaaa atgtcataaa aagtcgaata agaattggtat 300
 tcattctctt accactttnt aagggtttgt aattattatt ttataattga attaattatt 360
 attttacatg ttgtttatca ttgactntat ttccttagat gctgatcatt acattagatt 420
 cttgcttgca agagtactaa aacaagtaaa aatatgttac aagaatattg 470

<210> 4168
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4168

tctgcttctt tcaatnggac aacagtgggtg tgcctcttaa taccaccacc taagtagtgt 60
 ttggttctac tgccacgctg tccatgtcct tttgngggtt gggtcctcca ataccaccac 120
 tccaagtggc ataacttcat tgatgaagaa tggcttagac cacttggttgc tcagcttacc 180
 tagaaacaat ctcaatctag aattaaataa caaacctgt tgaccaggct gaaaattcct 240
 ttctgaaagc tttttatcat ggtaaatttt aactctttgc ttataaatct tggaattctc 300
 ataagcttga aacctcagtt cctccatttc atgaagttgg agcttcttat tttcactagt 360
 tgcatttgag tcaaaattca gaaacttcaa tgcccaataa gctttgtgct ccaactcaac 420
 aagtacgtga caaga 435

<210> 4169
 <211> 465
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4169

ttatagaacg tttgttcccta atttctctac aattgcatct cctctcaatg agctggtgaa 60
gaagaatgtg gcatttacct gnggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
anagcttact aaggcacctg ttctagctct tcttgacttt tctaaaactt ttgagctaga 180
atgtgatgcc tctggagtgg gagttggaac tgtattgtta caagggtgggc accctattgc 240
ttattttagt gaaaaacttc atagtgtcac cctcaactac cccacctatg ataaagagct 300
ttatgcctta ataagagccc tctaaacttg ggaacattac cttgtttcca aggaatttgt 360
cattcatagt gatcatcaat cacttaatta cattagaggg caaaacaaat taaacaaaaa 420
gcatgcaaaa tgggtagagt acctatagca atttccatat gttat 465

<210> 4170

<211> 470

<212> DNA

<213> Glycine max

<400> 4170

tatggacttg ggtgttgccc aatttcacg tatcttttgt aatactcacc acctctatta 60
gatctaataa ttttcacttt tttgtctaata tgtctttcta ctttattcaa gtaaatttct 120
aaggcatcca ttgcccgaga tttctcatgc agtaagtaaa cataaccata acgtgaatag 180
tcatcaataa aggtgataaa gtatctttcc tttccgaaag aactaacatc aaaagggtcca 240
caaatatcag tatgcacaat ttcaagaagc tgagtgttc ttgtagctcc tttctttgta 300
tgttttgttg ttttcccttg atacaatcca cacaaatatt tagatccgta aaatctagat 360
catgaagaat ttcattcttt attaatcatt ccacctttc tctagaaatg tgacctaaac 420
gtttatgccca caagaaagca gatcggtcat tcactaaacc tacgttagtg 470

<210> 4171

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4171

ncaagcttta tagaaggttc gctcctaatt tgtctattat tgcacacact ctcaatgagc 60
tagtgaagaa gaatgtggca tttacctggg gtgaaaaaca agagcaagcc tttgctttgc 120
tcaaagaaaa gcttactaag gcacctgttc tagctcttcc taacttttct aaaacttttg 180
agctagaata tgatgcctct ggaatgggag ttgaagctgt attgctacaa ggtgggcacc 240
ctattgctta ttttagtcat agtgccaccc tcaactaccc cacctatgat aaagagcttt 300
atgccttaat aagagccctg caaacttggg aacattacct tggttccaag gaatgttgca 360
ttcatagtga tcatcaatca ctttaagtaca tt 392

<210> 4172
<211> 226
<212> DNA
<213> Glycine max

<400> 4172
tctgggtggga catcttgact tgctgtgcca tctgacattt atcacaaatt ctgcctgttt 60
ctattatcag attgggaatg cctttaacag cacttttagtc aacgattgtc ttcatgcctc 120
ttaagtgcag atgttcaaac ctttgatgcc atattctgac tatactcttt ttggaggatt 180
tacatgtgga tgagtagctg gtttcttggg gtgtgcatat gtaaca 226

<210> 4173
<211> 444
<212> DNA
<213> Glycine max

<400> 4173
tcaccaactc atcttcaatg actccatatg gccttgtgat gtgagcggtc agctaactgg 60
agggtcatgc gtgtggacat tatttccagc tctccaagtt gccggcacat ggagagaggc 120
attaaattga tactggctcc caagtctatg agatctttgc ctacaacaac ctgcctgata 180
gaacacggta tcgtgataac tccaggatct ttgtgcttgg gtggaagaat gcgttgaata 240
acaacactac aattaccttc cacaacaatt ctgtcactat ggatgtaccg gttcttcttg 300
gttagcatat ccttaaaaat tttggcatag aggggcattt gatgaagtgc ttctccaaaa 360
ggccaagtaa tttccagttt cttgaagata tcaagaaatc tggccaaatg ttgctctcta 420
tctattcggg aggtaccaat ggat 444

<210> 4174
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4174

acttggtaac ccagctggcc ttgaatcata aatctgtacc tgctcggaagg ctttgtggtt 60
 tgtgtccttc tgctgaccac catacagacc tttgtccttc catgcaacaa cctggagcaa 120
 ttgagcagnc tgaagcttat gctgcaaata ttacaatag acctcctcaa cctcaacagc 180
 aaaatcaacc acagcagaac aattatgacc tttccagcaa tagatacaac cctggatgga 240
 ggaatcacc taacctcaga tgggtccagcc ctgagcaaca acagcagtct gctccttcct 300
 ttccaaatgc tgggtggccca agcagaccat acat 334

<210> 4175
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4175

agctntagtg tgttcttcga gcttctctgt gaaacaaaa gcaaagcaac atcataaagc 60
 tttgaaagag catcaacata aacgcacccg tacttataaa aatcgaaaaa tcgaagcttt 120
 agtgtgttct tcgagcttct ctgcgaaacc aaaagtatgt gatgcaatcc taccctcgaa 180
 gggcattgga tagaaaactc caagtagatt gggccagaga tgcaagagaa ggccctaggg 240
 ttcttatgag ccttagggta gatttcgggc ccatgggcta agtacgagcc cacttatctt 300
 tgtaaattatt agattaaggt ttcattatctt ttgggccttg tatttagggc tccataatgt 360
 aggtagggta ccctacaaat ataagatttt tcagcccttg tattttt 406

<210> 4176
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 4176

agctcttact cggtatgtccg attgagtccc gtaatatatc gagatgctcc aaattgaaaa 60

tagtagctcc tagcaaattc aaaccataat aactttttac tcggatgtcc gatttgtgtcc 120
 cgtagtatat cgtgatgttc gaaattgaaa acataaggtc tgagcaaatt caaacgacaa 180
 taacttttta ctcagatgtc cgattgagtc ccgtaatata tcgagacgct ccaaattgaa 240
 aatagaagct cctagcaaatt tcaaaacata ataacttttt actcggatgt ccgattgagt 300
 cccgtagtat atctagacgc tcgaaattga aaatagaagc tctgagcaaa ttcaaacgac 360
 attaactttt ttctcggatg tacgattgtg tcacttagta tatctaaacg ctcgcaactt 420
 aaaac 425

<210> 4177
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4177

tgaacgaatc taagatacat cttcttcaac tctggtgatt cttgactcca tctcattgaa 60
 gcgcataatc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120
 atcaaacctg tccaaaatct ttgaagtgtt gaaggaaaac ggtaacaaga tgaggctaac 180
 gcaatggagc attcaatcgc aatgccttat gcatgcgata tctaacacga tgtgccaat 240
 caattttag acctttatga aaggcccaca taacaatgag atcttcttca gaaacctgag 300
 caaggtatga agatctcgga agcaagatgc gaacaattag ttaatgaagg atgcgacttt 360
 cacaagccaa tgaaccgca agaagccttt cggatcatatc cgcttggtg gtgcanacca 420
 accggtgggc atcatgtaca gagaaatcaa acttccaatc gtcaattagt gcaccttcaa 480

<210> 4178
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4178

agctntattc ttccattgta tcaaggctctg ctgaacctca ttacctcct gtattatgac 60
 tcttgaacct aacaccttgt ctgggtacac atcagtctcc tcagtcactt ccaaattctt 120
 atgtaactct ccctgtacct gtaagctact tcgcccattc tctcggcac ctggaaaggt 180

ccatagaatc ttgcagcgag tttctgatga attcttttta ccgctgattg ttgtctatgg 240
 ggtctaagtt tcaaaaagac ccattctcca acttcaaaac acaagtcctt cctcttcttg 300
 ttagcatacc ttgtcatttg ttcctgaggt ttgagcaagt ggagtttgag tagattcaaa 360
 cctcatctct ttcactcaac tccaatgtca cagcagccac cttagtctca tagacaaaaa 420
 tctcacaatg 430

<210> 4179
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4179

acatcttgac tcgctttcca atctgacatt cttcacagat tctgccttct tctattttca 60
 gactgggaat gcctctaaca gcaccttcgt caatgatttt cttcatgcct ctttaagtga 120
 gatgtccaaa tctttgatgc catattttga cttcatcttc tttggagaat acacatgtgc 180
 gaggagtcac tggtttattg aggtgtccat atgtaacagn tgcctttga tctgctgtcc 240
 ttcattagga cttcactctt ctcatttgtc accaagcatt ctgactctgc gaagtttaca 300
 ttgaatcctt catcacacaa ctgactgatg ctgatcaag 339

<210> 4180
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4180

agcttctact gcgaggaata aaatttagtt acggcagtga ttagctctt tcttgtttac 60
 tgatagcaaa tttcaaaca atattgaatc taaactcata agaagcatac taaaacactg 120
 gtatttattt cttcccatgc ttacccttg catagaagag atttgcgttc ttgcaaactg 180
 ggaattaagt tggcatggc gattaacctg actagcatcc tgctgtctat taccaaactc 240
 tcggttatct ctgaggtttt cccaagatct ctcactgtga ctagcaggag gttgtccaga 300
 acgaccacgc caatcacggt tatctggctc agaataccga ttttgtaatt gatgaggaag 360
 ctgcagaaga taaagtaaac attattatat aacatctgag ttgtgaaaat gattacagag 420

<210> 4181
 <211> 440
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4181

tggatntcct cttagtaggg aatctatctt tcctaagata tatccaaact cagtccccct 60
 cattaagaac tagctcattt ctctctctat tgcctttagt ggtatacacc tttgtttggt 120
 tctctatttg gttcctaacc ctctcatgca acctctttac aaaatcttac ctagattccc 180
 cttctttatg tataaaagaa gtgtcaagtg ggaagggaat ttggtgtaag ggtgtagag 240
 gattgaacct atagacaacc tcaaaagggg attgcttagt ggttctatga atccctctgt 300
 tgtatgaaaa ttatacaaga ggaagatact catccaaga cttatggttg cctttcataa 360
 ttgcccttan aagggtggat agagacctat tctactacctc tatntgccca tcaatttatg 420
 gatggcaact ggtagagaaa 440

<210> 4182
 <211> 331
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4182

agcttgtact ttcttgggtt gacaactatc actgtggcag gaaagccact angagtttct 60
 gcctcaagct acaatgttcc taccataatt gactctggca cagtaatcac aaggcttcct 120
 gtggctatct acaatgcatt gaacaaatct nttgtgatga tcatgtccaa aaagtatgca 180
 caggcaccag gattctccat attggatact tgcttcaagg ggagtgttaa ggaaatgtca 240
 acagtgcctg agattcgaat catatttcgt gggggtgctg gcctagaact taaggttcat 300
 aacttccttg tggaaaatga gaaggacta c 331

<210> 4183
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 4183

agcttatgag cttcgagtgg gttgccaatg taataatgat ttatatagta caattaatat 60
actcttaatt gagagagatt aaaatagcac atattttattg aaataacaca ctcgacaaat 120
agtacataga atttattaat gaaaaaataa ttattttatt cacaataaaa atttcaaaaa 180
aatgcatttg actattttat caaaataaga aattttgaaa ataaagaaat tcaatttctt 240
tatccagata caaaattctg aaaataatga aatttaattt gcttatccaa acatagacat 300
ttgaaaatga aagaatttca catgaagcat ttgaaatttt tagaattcta aaattagaat 360
tttaaattgc ctcattccaaa caaactctaa atgtaatgtt gatc 404

<210> 4184

<211> 468

<212> DNA

<213> Glycine max

<400> 4184

tcagagggaa ggcctcgaag gagaaaaaga attcaaggct gaaatggagg ttctgagtgg 60
tcatggattt ggctggcctc atccaaacct ggtcacgctc tacgggttgg gcctaaatgg 120
ttcagagaag atactgattt atgagtacat agaagggtga agcttggagg atttagtcac 180
tgatagaaca cgtttgacat ggaggaggag gctagaagtg gcaattgatg tggcacgtgc 240
actagtctat ttgcaccacg agtgctaccc ttctgttgtg cacagagatg tgaaggctag 300
caatgtatta ctagacaaag atgggaaggc caaggctact gattttgggc ttgcaagagt 360
ggttgatgtt ggggacagtc atgtgagtac tatggtggct gggacagtac gctatgttga 420
ccagaatatg acacacatgg caagctacta caaaggggat gtgtacag 468

<210> 4185

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4185

agctntaact cggatgtccg attcangcgc tttatatatc gagacacttg atattgaata 60
acagaagctc tcgagaaatt cgaatgggtc taacttttca cacggatgtc cgattccggc 120
gcataatatg tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttctaattga 180

cataactttt cactcggaag accgattcac gcgcataata tatcgagacg ctcgaaattg 240
aacaacggaa gctcccgaga aattcaaatg gtcataactt ttaactcaga ggtccgattc 300
aggcgcataa tatatcgaga cgctcgaaat tggacagcgc aagctctcta gaaattcaaa 360
tggtcataac ttttcacttg ga 382

<210> 4186
<211> 397
<212> DNA
<213> Glycine max

<400> 4186

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaacac tggactgatt 60
cattcgcttc caaagtttca tggccttgca cgtgaagacc cgcacaaaca tttgaaagaa 120
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcattcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240
aggtccatca cgagctggga tgaccttaag agagtattct tagaaaaaaa tttccctgct 300
tccaagacca cagccatcag gaaggatatc tcatgtatta gacaactcag tggagagagc 360
ctgtatgagt actgggagag aattaagaca ctatgtg 397

<210> 4187
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4187

aactgaatta gacctttcaa ttaacaaact ccctggaacc atttcgggag acatagccac 60
tcgtatacca tttgcaacat ctgttattct agcttcaaat gaattttctg gggagattcc 120
tgtgagtctt gcaaactgta aattttcttaa tacccttaaa ctcgatcaga atcgactcac 180
tggtc aaatt cctccacaat ttggtgttct ctcacgaatc aagacatttt atgtatccga 240
caatcttttg atgaggccag ttccaatctt tagcgctgga gtttcaaaaa attatgcaaa 300
taaccaaggc ctatgtggag gaaaatcatt cgcgcttgcc aaggcgaagt cttccaagag 360
taactnggtt gttattgctg gagctgctgt tggcggcgtg actcttgcca cattacgatt 420

gtgtattgga tcngtcttct ttgtgcgacg tgtttctt

458

<210> 4188
<211> 471
<212> DNA
<213> Glycine max

<400> 4188

tggtgccttt cacgtctgga atatgaatgt agcatataga ttcaaagacc cttaggtgct 60
ttgttgatgg cttcttcccg atccaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct gttgagtatg taaacagcag tgtagactgc ttcagcccag aatgtgttat 180
gtagtccctt ctccttgagc atcgatctag ccctctccat aactgtgcga ttctttctct 240
cggacactcc attttgttga gaagaatatg cgactgtaag ttgtcgctca atgccttcat 300
cctcacaaaa tctttcaaac tcgcgagagg tgtactctct gctgcgataa cttcttagta 360
cttttatccg ttctcacttt gatttttagca agggccttga actccttgaa tactccaaag 420
acttctgact tttctcttac aaaatatacc catgtcattc tagagaagtc a 471

<210> 4189
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4189

agctntgatt atccttctga tacaatgctg tcttgaatga agattgtatg agacctcaaa 60
agaaatctta gtattcacct tacagcttgg aagaatgctg attatccatt tttgtttttt 120
ttttttttct tgaagcagta gttctaggtc gtctcacttt tttcaaaatg tttttcatta 180
ttaagaaaag gtaacgaaga tcaaattcga gcttggttta tagtccagga gacttcactt 240
ggggtattat tctgcaccct tctcctgaga tctatataat gaagggaacc aaaaagtacc 300
acagagttgg accatggaat ggtttgtgtt tcagtggcgg caggccaaaa actaacaatc 360
ccatttacca ttacgagttt gtctccaaca aggaagaggt ttattacaaa tggccctcaa 420
gaatgctagt ttattatcga 440

<210> 4190
<211> 393

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4190

tgttgcgcggt catgggacca tacaaactgc tccttcatca taagatgtgt taaagggtatc 60
 acaatagtgg cataaccttt gaagaaatgt caatagaaac ccatcaatcc caagaaaccc 120
 catagagctt taagggaact aggagcatgc cactgttgga tcgcttggaac tttggcttga 180
 accagttcca ccccatgttc agagacaaga tgtcttaagt attcaaccta acgttgagca 240
 aaggaacatt gggacaattt aaggaagaat ttgccttcca ataacacctg aaatgctttt 300
 tccaaatgga acaagtgcta ctcaaagtgt ttctataag tcaagatttg cggtctcgct 360
 cacgtctca tnttctacta aaatttgatg gta 393

<210> 4191
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 4191
 agcttctggt gggacatctt gacttgcttt ccaatctgac attcactaca gattctgcct 60
 tcttctatct tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttgag 180
 aatagacatg tggaggagta actgggttct tgagggtgcc ataggtaaca gttgtccttt 240
 gatctgctgc ccttcattag gacttcactc ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gtttgagtc 360
 agtcccttca ccagcagtac tttgtccaga ctaggaagtc catcatggac tagctttccc 420
 attccagtga tctttccttt a 441

<210> 4192
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4192

tctggctcat ttggaacttc aagctcctct gatcagtcct aattaanaat atgtttccta 60

gcagataatg cctncatttc ttcactgcta acaccactac catcagttcc ctctcatata 120
 ttgacttgac ttgagccctg tctgacagag ccttgctcca aaaagctaaa ggtttctctt 180
 cctacaataa aactggccct agcccagttc ctaatgcatc agtttccatg ataaaattnt 240
 tagagaaatc tggtagtgcc agaataagaa gcctnctcat tgctgcctta agctcttcaa 300
 aggcatgagt agcttctacg aggtatntat aaaccaagtt agagatagtt acaatccacg 360
 tatttataaa cctctataca gcagaactaa cctatactaa ctctaacana aagctaacta 420
 actctaacag ctagctacct aactct 446

<210> 4193
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4193

agcttcttat ccaaggtaat tcttggtggt gaagctcctt cttccttgtc ttattccata 60
 gtggatggtg cctccctctt cctcttctcc ttgecttcc gctgcatctc cagggtgtaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agctctacaa 180
 gcaagcttcc atcacaatat atataaatta tcatccggga aatcatcccg aatgggtaag 240
 tcttcatcag acacatgttc gatccgactc aaatgatcag caactaaatt ntatgctctg 300
 ctctatcac ggatctccaa gtcaaattct tggagccaaa gcatccatca gatcaaccta 360
 ggctntgaat cagccttctg caacaagtac tttaaagctg catgatcagt ataaacaata 420
 atgcgagt 428

<210> 4194
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 4194

tgcatgcata ttgacggaca ctggtgatgc gacatagaat gtgtactaga aggacttattc 60
 agctgcattg actaaggaca atgccgaaat gagaaccatt agaagaattg caggaccaat 120
 gcaatcgagt gggaatattg tgttgatttg acgaccctct gcaaaggcta agattattag 180

agggagggat ataagacctg agggcagaag gaatcttttt gattgacca aaaagattct 240
 gcctctttct gaactcatgt gcattaccaa tatgacaaga gtcaccaagt tagaagctgc 300
 tgттаagaga acgaccaaga tatcaaccac aagagggtag tttgaacggt atgttttgtc 360
 acacaaataa tggtcacggc aattgattgt atccaagggt tccttcactc gccaaactgat 420
 gcatttgaag aat 433

<210> 4195
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4195

agcttgtgtc acaattcact gtgacagtca tagtgtcatt cacttagcaa atcaccaa 60
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtg agaaagtttc aacagaagaa aatccggctg atatgttcac 180
 aaagtccttc tctagtgtca agttcaagca ctgcctggac ttgatcaatt tcgaagatgc 240
 ctaaagcagt ttggtagaag tgcagcccta aatcacaagg aagacacttg ctgatttggg 300
 gtcaagggtg agatttgtgg tgtgtgactc acaatcacia tttgcacaag tgagaatgct 360
 ttaaagtggc gctgtcataa atgttgtcag ttattataac tg 402

<210> 4196
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4196

agcttgttta gtcaaaaagg taggtcgtgt gtcttaagaa aagtttatta tgcttgatgg 60
 cccggctcat ttagcaacaa tgttttttta ataaaaatag tattaataat aagatatata 120
 atattataat tattttatct aaattataaa attattatag tggtttgatg atttaaatta 180
 ttttaattaa tttttaaaat atgttaattc ctataaacct agatgagtag cataaatatt 240
 gactatTTTT tttttggtgg atttaaaaga cntgctatc atgttacatg taatatttgt 300
 atgtaagttt tgtccatatc ttatgattta aaattgtttt attattttta tgaanatctt 360
 tgattntgtt aaaaaaatta tacaactatt aatataaaat atgccttaaa ataaactaac 420

agatcaaact tatacaaaca ttagagttag a

451

<210> 4197
<211> 454
<212> DNA
<213> Glycine max

<400> 4197

agaatcggac atccgtgtga caacttatga ccatttgaat atcacgagag cttccgctgt 60
tcaatttcga gtgtcactat atatgatgcg cctaaattgg acattcgagt taaatgttaa 120
gagcatttga atatctcaag agctttcgt tttcaattct gagcgtctcg ttatgtgatt 180
cgcctgaatc ggatatccgt gtgaaaagat atgtccattt gaatctctca agagctttcg 240
ctgatagttt cgagcgtctt gacataatat gcgcccgaat cgaacatccg agttgaaagt 300
tatgaccatt cgaatatctc gagagacttc gatgttgaat ttcgagcgta tccatatatt 360
atatgcctga atcagacatc tgtgtgaaaa cgtatgacca tatagatttc acaagagctc 420
tctgtgtgag attcgagtgt cactatatgt gatg 454

<210> 4198
<211> 413
<212> DNA
<213> Glycine max

<400> 4198

cattcaattc gtgcgtgtcg atatgttacg ggactctatt agacattcga gtacaaagtt 60
atggtgcat tgtattggct cagagcttca acattcaatt tcaagcgtct cgatatgtta 120
ttggactcaa tcagacatcc gagtaaaaag ttatggctcg ttgaattggc tgagagcttc 180
aacattcaat tacaagcgtc tcgatatagt acgggactca atcagacatc cgagtaaaaa 240
gttatggctg tttgaattgg ctcaaagctt caacatttaa tttcaagcgt ctcgatatgt 300
tacgggactc aatgagacat ccgagtaaaa agctatggtc gttgaattgg ctacagcttc 360
acattcaatc taagcgtctt atatgtacgg gcccaatcaa actccgagaa aaa 413

<210> 4199
<211> 354
<212> DNA
<213> Glycine max

<400> 4199

atccacaaac ttatggccag actgaggctg cgaacttggg gcgggagcag tacttacgag 60
ccttagttca ccgcaagcca acgtcgtgcg ggcaattcct gttatgggtt gagtggcat 120
acaactcttc atgccactca ggcacaacga tcagcccgtt caagatcatc tacggtcgga 180
aaccacctgc tattccggaa tatttggggg ggacatcgct tatcaacacc gcggatgatg 240
tgctcaacca acgcgaccag gttctgaagc tgctcagtc gaaactgctc atggcacagc 300
atacgatgaa gtatactaga tacgcacaca gacgacctca agagtctaac atcc 354

<210> 4200

<211> 373

<212> DNA

<213> Glycine max

<400> 4200

agcttttctca atcacctcat taagaactag ttccgcatgc aggatgtgtc tgacttttat 60
gaaagatgac cgcctctcat caatgagacc agatatcact tgtctcaatc tatatgctaa 120
taacttaact atcacctttg tcatacatc agtcaaggag attggctctgt agtcatcaaa 180
tgactggggg tgtttggttt tgggaattaa agctatgaaa gaagcattac tgcctctagg 240
gaagctgcc a tgcacatggt aatcatctac aaatcttctg atgtcagatt tcatcatttc 300
ccaaaattct ttaatgaatt tgaagttgaa gccatcctgt ccaggacagt tgtccgcatc 360
acaactccac act 373

<210> 4201

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4201

acgtgaatat canaaatcaa tttcaaatta tattctatct tcaaaattta aatatgctca 60
aacatgtata tgatatatta tcagatactc gtaatatcaa ctaaacaat tgacctaaact 120
tcttatctct ttttgattta tcattttcaa tatcttctta ttttaacttg aatttgaata 180
gtttaaaaaa atattttttc aatatataaa aattatctat cataaatata aaatataatt 240

tatttgttca aaaatattta tttattatat attttaatta taatataatt tatatatatta 300
gaagtatatc tttatcataa attataaatt ctcatattata aaataaacat ttactctata 360
taatacatag actaaaatac tagtatatct aaattaaatg cactatttaa gttaaatt 417

<210> 4202
<211> 327
<212> DNA
<213> Glycine max

<400> 4202

aagctcggct tttgttttac taaattgtta acaggttcat gcctatgaga ggtagaccg 60
agtttacaat tacaatttag atccatgtgg tcctgtatat attacagttg gggatggggg 120
caacagagag aagatggcat tcaaattcgc agacgagcct ggtagctgtc ccgatccatt 180
aagtactcct gatccttata tgggtggcct ttgtgcaaca aattttacgt ttggtacaat 240
agttagtaac gtttgatggg atcgccagcc acattacagt gctttcacga gaaagtagct 300
ttggatatgg gactctagac gtactca 327

<210> 4203
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4203

agcttgttca gaaacgtgca tttgtgtgca atacacaatt cccggtacac cacaacaaaa 60
tggtgtatca gaaaggcgaa atagaacttt aatggatatg gtttagagca tgttaatcaa 120
ttagacttta tccgtatcct tgtggatata taccttgaaa actgccatgt agttgttgaa 180
cagggttcct agtaaggtaa ttccaaagac accttttgaa ctgtggacaa ataggatacc 240
tagtataagg aacctgcatg tttgggggtg ccaggcagaa ataaggattt ataatccgca 300
agaaagaaaa ttggatgcaa gaacaatcaa tggatatttc attggttatc cagaanagtt 360
aaaagggtat atatcttatt gttataatca tagtatgaga attgtcaaaa ctggaaatgc 420
aaggttcatt ggaaatgatg aaatcagt 448

<210> 4204
<211> 421

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4204

agcttgctaa ccaatgtaaa ctccataat ctcccacact ntntgggggtg ggccattctt 60
 ggatggcctt gattttctta ggggtccactt ggaccccatt tctaccaact acacacccta 120
 agaaaactat attatctaca caaaaagtag acttctctat atttgcatag aggggtgtttt 180
 tcctaaggac tgaaataact tgcttgagat gtccctaagt atcatctagg ctccactagt 240
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
 gatgcataag cctcataaag gtgcttggtg catttagtgag cccaaaaggc atcactagcc 360
 attcatacaa accanacttg gtcttgaaag cagttttcca ttcacacccc tttttcatca 420
 t 421

<210> 4205
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4205

tctcaaagat gtacttaacc aggtccatct tggatatcaa ctaggtggta tggctcagca 60
 tgtattgtct tagacggtgg gacgcccaga ctaaagcaca acacgttctt tcgagcaggg 120
 agtagttcat ttcataggcc gtgaactttt tactcaagta gtagacagcg cgttctcttc 180
 ttccggactc gtcattgtgc cccaacatac atncaatcga ctcatccaaa atcatcatat 240
 acaagatgag aggcccttct ggtaccaacg acataagcac gagaggggtc atgagacact 300
 gtttgatcct tccaaacgcc tcttgacaat cctcattcca acggacggat tggtttctgc 360
 gtaagagttg gaataacggg tcacaattag ccgtgagtcg tgatatgaat ctggccatat 420
 aat 423

<210> 4206
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 4206

ntgtagggta tcagctcgcg atctctagtt tcccattcct ctctcagctg atggattacc 60
aatgttgagt cgccgtatac cttgagtagt ttgacattgg agtcaatcgc tgcctagacg 120
gctagggcac atgcttcata ttcggccatg ttgttggtgc agtcgaatcc tagcctggct 180
gtgaagggta cacattgatt gtccggagag accaatactg cccaacgcc atggcctaga 240
atgtttgacg ctccgtcaaa ccatacgatc catctgtccc gatcttcgtc caattnttcc 300
tcaaacaagg ccatgatgtc ctcatccggg aattcacgat gcatgggctg atagtcgcta 360
agaggctgtt gagccaaata atacgtcag gcgctccctt ttatcgcctt ntgagcgacg 420
tagactatat naaactccga tagcacgact tg 452

<210> 4207

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4207

agctttttaga atntaacata actatgatta ttgaagaacc tattcatgtt gttttttgcg 60
agactaacc tataaggtca agaaaggaaa cacttgatga tattacagat tctttagaag 120
atatgcatat tcatgaggaa gggcacaaag acaaaggaaa tggaaatgat gaagactctc 180
aaactaatga aactaaaaca agtacaaatc ttccaagaga gtgaagaact tcaagatatc 240
atcctcttga taatatcatc ggtgacatat caaaaggggt aacaacttga cactctctca 300
aagatgcatg tagtaatatg gcttttggtt ctttaattga acctaaaaac ttaaatgaag 360
tcatagntga tgaacattgg gtcattcgta tgcaagaaaa gttgaattaa tttgaaagac 420
atcaagtctg 430

<210> 4208

<211> 436

<212> DNA

<213> Glycine max

<400> 4208

ggactccatc tcattgaagc gcatatccac ttgtaattcc aaagtgtcta acctttcacc 60
aaciaagggt tgaagaccat caaacctgtc caaatctat gaagtgttga aggaaaaggg 120

tcacgagatg acgctaaggc aatggagcat tcaatcgag atgccttatg catgcgatat 180
ctaacaagat gtgcccaatc aatttgtata cttttatgaa aggccgacat aacaatgaga 240
tcttcttcag aaacctgatc agcgtttgaa gatctcggaa gcaatatgcg aacaattagt 300
taatgaagga tgcgactttc acaagccaat gaaccggcat gaagcctttc ggtcatatcc 360
gcttgatgg tgcaaaccaa ccggtgggca tcatgtacag agaaatcaat cttccaatcg 420
tcaattagtg cacctt 436

<210> 4209
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4209

tggttccttc atcaaaaaga cattaaatga atcataccaa tataagcaaa tcatattaaa 60
ataattgtac tttggaaatt tatgtaacct aaaatgatga gggtttgtct accctacaag 120
gtagcatatt acagggacca caacgagatg gaagcaaact aaagagctga caggatttcc 180
aggtagccca aaagctagaa ttttgctttc tatagattga aagccaatct ctgtaaattgt 240
aaatggcttg cttgggttaa tacacacctg anagatatata attaaaaata aataaaataa 300
ttattaatta tgataacatg atttacaaaa tcatactcac caaaacacta tacaaaaggg 360
aaaaatatct ataacatgct acttctacaa ctacaacaca ttgcatccat ggtctagatt 420
acaggacacc ataatttaat taataaatag t 451

<210> 4210
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4210

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taacgggtca gatccctcct aacagtcctt aggaagatca caagaacaat gccagcaaga 120
aaagtgatca ccataagcga attaaggata gaaaaccaat gcactttagc tccctccatc 180
ttcaagtaag catcccatct agatggccac ttgatgtcac tctcctcaaa ggtgacctca 240

taagtgaaaa caacaggctg accctccttg ataggcattg ccacagtggc tggatcgcat 300
 ctgatagacg atggatactt ctcatacatc ttcaaggttt tcgcagaatc agcattatgc 360
 ataatactac aaggaatcac ctcanacca acaaccatgt 400

<210> 4211
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4211

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 actttgtttg ggacattgag tggtaatata agagaggtgc ttcataaatt cagtgtggat 120
 ctcccaaaga aacatggaag aggagggcaa tctgctctgc cgtttgcccg tcttcgcatg 180
 gagaagcgtc ataactatgt gcggaagacg gccagctcg ctaccaatt ctatatcaat 240
 cctgctacca gccaaaccaa tgtttctgga ttaatactgg ctgggttcagc ttgattcaag 300
 actgaactta gtcagtcaga tatgtttgat ccttgacttc aggcaaaaat acttaactgt 360
 tgtgatgtct cctaccg 377

<210> 4212
 <211> 368
 <212> DNA
 <213> Glycine max
 <400> 4212

agcttgcagc acatgcctcg tattattgtt tattcttttt cagtgggaat gctatcgcta 60
 atgcttgctc aagcataatc ctatgtggga atactagcaa gattcctact ccgtgtcgta 120
 tttcactaga tgatccattg atgaatagag tctaaggtag ctcttggtgc cttttttcac 180
 ctttgctcag cgacatttaa accatgaagt tgccataca ctggaccttg agcgctagtc 240
 taggatgata ttgcgaacca tattgtgacg atttgcttgc ccgggttgcc atccttccca 300
 ctaaaatgga gccgtggaat acttgctga gtggttgatc aatccatact atgcatggat 360
 gtgcttgg 368

<210> 4213

<211> 364
 <212> DNA
 <213> Glycine max

<400> 4213

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ttccctcttt gaacaaatac ccctcagcca aatagtatcc atcttgggcc tttttccac 60
aactcttgta aatgggagag aaatgttcat ctaaagcata caagtccta atgttatcaa 120
atcctaaaat ttgagctcct agggagcaaa acaatgtgtg tctcctagag agggcatcag 180
ctaccacatt tgtttttccc tttttgtatt cgataacata tggaaattgc tctaggtact 240
ctaccatttt tgcattgaaa attccttggg aacaaggtaa tgttccaag ttcggagtac 300
tcttattaac gcataaagct ctttatcata cgtggggtag ttaacggtgg caccatgaag 360
cttt 364

```

<210> 4214
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4214

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agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca aattctgcct 60
tcttctatct tcagactggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tttcttggag 180
gatagacatg tggaggagta actgggttct tgagggtgcc ataggtagca gttgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgactnt 300
gtgaagttta cattgaatcc ttcatcacac agctgactga tgctgatcaa gtttgagtc 360
agtcccttca ccagcagtac tttgtccaga ctangaagtc catcatggac tagctttccc 420
attccagtga ntctttc 437

```

<210> 4215
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4215

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 gtcgtctgca tactgcaata tgctgactct gacttcattt ctgcccacat tgaaaccttg 120
 aaacaggttt ttatccattg cttctttcac cagcgcgtnt ggtccttcca caagaatgtt 180
 aaacaggaac ggggatagag ggtctccttg tcttaggcct ctttggggaa taaactcang 240
 tgtaggactt ccgttaacca atatggatat ggaagcagac tttaggcagc cttcaatcca 300
 agttaccac ctgtcacaaa aaccatcct cttcaacaaa tatagtacac acctccaaga 360
 tactgaatca taggccattt tataatctac tttgaata 398

<210> 4216
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 4216

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 aaataaaatg ggaacaaagg ctttctttcg gaagggttg agcagaggat gaaggaaatg 120
 ggtaaagggt ttagttctta gagcttgggc tccttagctg tttatttttg agcatgttac 180
 aataaaaggg tttatgacac attgtggatg gaactcctat ttggaaagtt tgtgtgctgg 240
 aatgccaatg attgcatggc ctatctcagt cgagcaattt ttgaatgaga agttgataac 300
 tgaggtttta aagattggtg tccaagtggg gagtagagaa tggttgtcat ggaactcaaa 360
 ataaaaagag ttggtgggaa gagagaatgt gaatcattag tgacgaagtt gatggtacag 420
 agtgaata 428

<210> 4217
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 4217

taatttttta atagatgagg tatttatatg aaagataatc ttatttaaac tggataaata 60
 agataattat aagtgataaa actctgtctc caaatattta acgtaattat atatgtaaga 120
 ctaattaatc tagaataact ttgcatgatt aacatactca ctgctataac actaatagtt 180
 tggtcataac taattcattg atcaatatta taaaatcatc aatatttgag agtattagaa 240

taaatcttac ttccgattac aatgaaatta attagatgca gacctattaa cgaaatgctt 300
 taacttcacc aaatatgtga ttatgaaagc 330

<210> 4218
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 4218

agcttctcac ctaaccacta cccgtgcat ctctaccta gaccaatct tagatatgag 60
 aacctccgct cactccctct cactcacact ctcgtgttta caattaagtc aaagacacac 120
 cagagatcaa ctgtgaacaa aagagatcaa ctctacacac tagagatcaa ctctacacac 180
 tagagatcaa ctctacacac ataggtccaa cacttgatgt tagggtagca tcaagggtggc 240
 tcacaaaaga ctcaagtccc aaaaactcac taactaactg ttcaatcccg gacttggtac 300
 agaactcgtg cagactccat gattatatag caatgtgctg ttctgggctg caacttcttg 360
 atgctggagg agatctatct tcttctg 387

<210> 4219
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 4219

agcttgcagc aaatgctaac gacaataaca ttttactcgg aagtccgatt ggtcccgtg 60
 atatatcgag aactcaaaa tttaaaaccg aagctcgtg caaacgctat cgacaataac 120
 atttcactcg gaagtccgat tgagtccgt aatatatcgt gacgctcgaa atttaaaatc 180
 gaagctcgta gcaaatttga acgaccataa catttcactc ggaagtccga ttgagtcccg 240
 taatatatcg agacgctcaa aatttaaaac cgaagctcgc agctaagct aacgacaata 300
 acatttcact cggaagtccg attgagtcct gtattatc gagacgctct gaatttaata 360
 ccgatgctct gtgcaaattc gaacgacatt aacat 395

<210> 4220
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4220

tgtattggga taaacccaag tcccacatca gctaaaaata aagccatggt agagtatata 60
agtgagggac aaccctcacc ccttaagcta gctcttgagg ttgagttagg tttaaactca 120
ttctaagaat ctaagatggt attagagtat atctaagctt aatccaaagg gccacccaca 180
atagttatcc acgcaccacg cctaagaagt gctgggctg acggagtgtg ttgggaaaaa 240
tctaagtcac acatccacta aaaataaagt caagtttagg tatataagtg aggggcaacc 300
ctcatccttg agctaacttt tggagtccag ttaagcgtaa attcacattc taagaatcta 360
agagcttgct cttacgatca catgaacaag cattatccct caatanntat catactgtgt 420
ccttcccttt ctgtgccatc tc 442

<210> 4221
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4221

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aagctatcga gaaattcaaa tgggtcaatac ttcgaactcc gaggtcctat taaggcgcat 120
aatatatcta gacgctcaaa attctacaat ggaagctctt tggctataca aatggtcata 180
acttttcact cgaagggtccg attaaggcgc ataatatatc gagaccctcc anattgaaca 240
atggaagctc ttgagcaatt caaatggtca taacttgta ctcggacgtc cgatttagct 300
gcataatata t 311

<210> 4222
<211> 264
<212> DNA
<213> Glycine max

<400> 4222

tgatgtaaca ttcggagagg ttaatgattc aacgagatga tgcgctccat gagagggttg 60
atttaatgga gaatagagac catatgaatt gctcaagagc ttccattgtt caatttcgag 120
cgtctagatg tataatgctc ctcaatcgga ccttcgagtt aaaagttatg accatttgaa 180

atgctgcaga gctttcattg ttcaatttcg agcgtctcga tatattatgc acctgaatcg 240
gacctgctag tgacaacttt tgac 264

<210> 4223
<211> 380
<212> DNA
<213> Glycine max

<400> 4223

agcttgaagg taaactagat gccttggtta acctggtaac ccagttggcc ttgaattaga 60
aatctgtacc tatcgcaagg gtctgtggtt tatgctctc tgttgacccc catacagacc 120
tttgcccttc aatgcaataa cctggagcaa ttaagcagct tgaagcttat gctgcaaaca 180
tttacaatat acctccttaa cotcaatagc aaaatcaacc acaatagaac aattatgacc 240
tctccagcaa tagatacaat cccggatgga ggaatcacc taatcacaga tggctaccc 300
ctcaacacaa caatagcagc ctgctccttc catccaaaat gttgctggcc caagcagacc 360
atacattcct ccacctatcc 380

<210> 4224
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4224

ntctagaagc ctactccgga tacaactaga ttagaatgca tcttccatgc gaggagaaaa 60
caatattcat cattgaagat gccaaatatt actaaaggt catgcctttc agcctaaaaa 120
acataggcgc gacataccaa cgactgatgg actgagtctt caaacaacaa atcatatgaa 180
aatgtcgagg tatatgtgga cgacatagtt ttcaagtctc aaagcatatc ccaacatgtg 240
gcggaacaagg aagaagtctt cggggaacta cgaaaatatg aatgcgcctt aaccctaaaa 300
tatgtacttt cgagtaggc ggcgacaagt tccttggttn tatgatcacc caccacggga 360
ttgaagctaa ccccgacaca tgcactgtca taccgg 396

<210> 4225
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4225

tgcacacaag ttggttggtg ttgttattgg ttgattaca tgataacctc tcatttgtgt 60
ttagcttgta ttattgggtt tgatgaaatc cctttgctac aagtcaaaca attatacttg 120
ttgatagtg ctaggggtt tttcttcacc ctanacacct atttacaacc aattggatcc 180
ctagatggag gcagttcagt aagagtccat gtaccatttt tcatcaaagc atcatgctca 240
gtcctccttg gtgcaaacca agtaggattg gaaagagcaa tttatgttaa cttgtgctca 300
gaataagcta gaagaagagt acgatgaagt ctaggattga caacaccagt tntagctctt 360
ttgcacattg taacaagatc aatttgagaa gtagta 396

<210> 4226
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4226

tgctctctgc caaccaatat tccaacagat tcttcttggt ctggttcaca accaaccgtg 60
ataattctaa tgattcaaag gcattcagct ttccccttgt taaaagtgtt ccaaaatact 120
gcaacagacg aggagtttgc ccagcttgca cacgaacact ctgccacgta aagcagataa 180
tggcattnta aacattataa ctaattgacc aaacaaaagg acaccaccta aacgcaaaca 240
gtacacaacc agaacatgaa tctctgtgaa t 271

<210> 4227
<211> 405
<212> DNA
<213> Glycine max

<400> 4227

agcttgagga tcaaaatggg gtgaagcttt atttatagct gatggtgtct gtttggatgg 60
gaactcatgc aaatgaagct tttcctgagg cttggcattc atatgcatca aaaactactg 120
gtgaaaacat tgctcacact cgctccaagg aatatattcc tcccaggctt tgtgacctta 180
cagttaatga gattcatgcc caatatttgt cgctaaaaaa taggaatgat gtgatgctac 240
taaataatga tatccgtaat gactcgggaa ttgttaactc gtaggcaagt gtacaaaaac 300

ttcacaagta gtaaagtttt ccgatatccg aacgtccaat ccaccacgac ttgcttgta 360
 cttatagtat tctgatccc attgatgcgc atgacatacc aattt 405

<210> 4228
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 4228

gcttagaaga aattcaaag gtcataactc ttcactcgga tgtatgtatt acgtgtatca 60
 catatcgaga cgctcgaaat cgaacaacac gagctctcca gaaattcgaa tagtcacaac 120
 ctttcacacc gaggtccaat tcagccgcac cacatatcga gacgctcgaa atctaacaac 180
 ggaagctctg attacatata aatgctaata acttttctact cggatgttcg attcaggcgc 240
 ttcacatatc gagacgct 258

<210> 4229
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4229

agcttaagct ccttcaactg cacaaggctc ttaatattag aagagtatcc ttgtggaacc 60
 tttacccgac aaagacactg acaaaaactt atcttctcct tcttgacaa agtatggcag 120
 gctgggggca agtaaatttt ctcccatca gaccttggat gcaactgtga tcgtataccc 180
 atatcagcta gatcttgatg ggtattcaag ccaccttcg tcttgccctg aatgttaagg 240
 agcgtcccaa tcacactatc acaaacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt ctcccatatg 360
 caactctgac ttttatcctt cttnttggtc ttcccaaata cagtattcag gtgttgaacc 420
 cgctgatata cctgttcac agtcaa 446

<210> 4230
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4230

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agcttcctta agaagattcc taaagaagct agagcttatac tacacacaca tctctaatag   60
ctaagctcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataatagct  120
aagctcacc ccatgacaaa atacatgaaa atacaaaaaa ttcctacta caaagactac   180
tcaaaatacc tcgaaatata aggcaaaaat cctatactac tagaatggcc aaaatacaag   240
gcccaaacga aggataaaac ctatttcta atttacaaag ataagcgggc tcatacttag   300
cccatgggct cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatcg   360
ctggcccaat ctgcttggtg tcttctatcc aatgcccttg cgngtagga ttgcatcatt   420
ccctccacct tgg                                                    433
  
```

<210> 4231
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 4231

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agcttaagct ccttcaactg cacaagactc ttattatttg aagagtatcc ttatggaacc   60
ttcacccgac aaagacactg acaaaaagtt atcttctcct ttttggacaa agtatggcaa  120
gctgggggta agtaaaatfff cttcccatca caccttggat gcaattgtga tcgtatcccc  180
atttcagctt gatcttgatg ggtattcaag ccatcttttg tcttgccttg aatgttaagg   240
agcgtcccaa tcacactgtc ataaacattt ttctccacat gcataacatc aatacaatgt   300
ctaacgtcta gatcagacca atacggaaga tcaaagaaaa tggacctctt cttccatatg   360
caactcttac ttttatcctt catttgggtc tttccaaata cagtattcag gtgttgaacc   420
cgctgatata cctgctcac                                                    439
  
```

<210> 4232
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4232

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agctnggact ttctgtgttc tgggaacctc tctctttctc aggtgtaccc aaaccaatc   60
  
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acttggttca cgcacgactt tctttctgct tttgatggct tgccttgcat agctcgcatt 120
attcttttca atttgaacct tcacttgctc atgcaacttc ttcataact cagcttttagc 180
ctgtgcatcc ttatgcttaa acatagcaat gttaggcata ggcacacat caagaggagt 240
caaaggacta aatccatata ctatctcaaa tggatgaaca ttagttgtgc tatggacagc 300
ccgattataa gcaaactcaa catgaggcaa acaggcttcc caagatttaa gatttttctt 360
taaaacagtc ctaagcagtg tgcctaaagt cctattgact acctcacgtt gaccatcaga 420
ttgtgggtga caag 434

<210> 4233
<211> 197
<212> DNA
<213> Glycine max

<400> 4233
ctacatgcta aacggtgtgt tatgcatgca cgtgaagctg gatcattcct ccgcggaatc 60
gatgtgaacc gtttaccttc tgtggttgat tgcgaaaagg aagcacgtgt ctcatctcca 120
aacagcacgg tttctagcgt ctgtggaaag cgcaccgaga gggaaaccaa tggagaagac 180
aacgacacag acagagc 197

<210> 4234
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4234

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ttctcaacag tcacatattt ttatctgatt ctcaagtggc catcaaaggc ttatatatat 120
gtgactagag acacgaattt tataatagtt ttgaagaaca aaaaggctt atcctcttaa 180
caagcaaaat tgttttatcc tcttacaat tccttggcca aaacacttgt gattcaataa 240
ggaattattt gagtgtcaa attttacaat ctatctcttt caagagagat gtctttttct 300
cttctctttt attctaaaaa gggattaaga gaccgagggt ctcttgttga gaaaggattc 360
taaacactaa ggaaggattg ttcttgtgtg atgagaactt gta 403

<210> 4235
 <211> 223
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4235

tgaatcggat atccgtgtga naagttatga ccatttgaat ttctctttat ttcccgtag 60
 tcaatttcga gcttctcgac atattatgcg cccgaatcgg acatccgtgt gaaaagttat 120
 gaccatttga atatctcgag agcttcctat gtttaatttc gagcgatcg atatattata 180
 agcctgaatc ggacattcgt gtgaaaagtt ctgaccattt gaa 223

<210> 4236
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4236

agctnttgag gaattcaa at ggtcataact ttccatacgg atgtccgatt caggcttata 60
 atatatcgat acgctcaaaa tttaacatcg gaaactctcg cgaaattcaa attgtcataa 120
 cttttcacac ggatatccga ttcgggcaca taatatgtcg agaagctcga tattgaacaa 180
 cgaaagttct ttagaaattc aaatgggtctt aacttttcac acggatgtcc gattcaggaa 240
 aatcacatat cgagacgctc aaattgaaca acggaggctc ttgagaaatt caaatgggtca 300
 taacttttca ccaggatgtt aaattatggc gcattacgtt tagagacgct cgaaaatgaa 360
 caacggaagc tctcaggaaa ttaaaatggt cataactttt ca 402

<210> 4237
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4237

agctntaggt ttgatggccc caatgacgtc taccctccac atggaaaaag gccaaaggggc 60
 ggacataaca ttcagaggat gtggcagaac attgacattg tccgcgtacg cttgacattt 120
 atgacatttc cttacatggg tgcagcaatc gcttttcata gtgagccagt aataaccggc 180

cctaaggatc ttcttgcca tagcatgcc attggcatat gtcccaaata aacactcgtg 240
gatttcctta atcatgtagt tcgcctcttt ggcatctacg catcgtaaaa gggatcatgtc 300
atggttttgt atgtactgga tagtaccact cacaagaaa ccagtagcca atctccttaa 360
cgttcttttg tcattgtcgg aaatccctgg tggatattct ttgttctcaa catatttggt 420
gatgt 425

<210> 4238
<211> 429
<212> DNA
<213> Glycine max

<400> 4238

agcttattct actagggact ttatacaaca tgcatttcat atttttcttt tcagaatcat 60
acagattggt cacattcatg gtagcaacac gcctagaggg taccttcaca tcaggatgca 120
aatattgtaa taactcttta aaccttctat gttcaacaaa agagaatgga agatcatgct 180
caataatcgt tatagatata atctcatata ccacactttg atctattttt ttatttataa 240
atctcccatc atgattgaga ataatatctt caacatcact attagaatgc gtcttcaaat 300
atacatcaca tttcccatat gacgttgtaa ggttgaagtc ccattcttat tgtcactgcc 360
cacataatct ttcaaacaat atttgcattt actctcact tttccatcac tatgtataac 420
agatttctc 429

<210> 4239
<211> 327
<212> DNA
<213> Glycine max

<400> 4239

ttgtataggc aagaaaaccc ctctgttaat taaggaggtt gacattcctt caacgatgga 60
agagataaat cagttgagta gagaagggga tgaattattg tacgagttga ggagtaacct 120
acttaaggct cacgatcaga tgagaaaata tgcaaataac catagaagag aactgatatt 180
tcaggagggga gattgggttt ttttgaaatt gcaaccttat agaagaggt ccttagcaag 240
gaagccaaat gagaaactga gtccaagatt ttatggaccc tacaaggtga tacagaaaat 300
acgggaggtt gcttataagt tggaact 327

<210> 4240
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 4240

tggacttcct ggtgtttggg aacctctcct tcctcagggtg tactcaaacc caatcacctg 60
 gttcaagcac gactttcttt ctgcttttgt tggcttgcct tgcataagctc gcatttttct 120
 tttcaatttg aaccttcact tgctcatgca acttcttcac atactcagct atagcctgtg 180
 catccttatg cttaaacata gcaatgttag gcataggcaa caaatcaaga ggagtcaaag 240
 gattaaatcc atacactatc tcaaattggg aacaattagt tgtgctatgg acagcccat 300
 tataagcaaa ctcaacatga ggcaaacagg cttccaaga attaagattt ttctttataa 360
 cagtcctaag cagtgtgcct aaagtcctat tgactacctc agtttgacca tcagcttggtg 420
 ggtgacaagc agtacia 437

<210> 4241
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4241

tgtgctattc caagttcatt aatcatacct ttaagccaga ttgattcctt cactccttca 60
 gctagggcca tgtattctgc tttagttgtt gaaagagcaa caactaattg ttgatttgct 120
 ttcaaactga ttgtgtacc aaacaaagta aacacatata ctgttaagga cttccttggtg 180
 tctacatttc ctacaaaatc tgcatacaca tagcctgtga ctgctgcctc gtgtgctgtc 240
 ttcttgtagc ttaaaccagc tttcaaggat ccatttagat accttagtgt tcacttcaca 300
 gcttcctagt gtgcgctgcc aggatentcc atgaatctac ttataatact tacagcatga 360
 actaagtcag gtctgctgca aaccattcat acatt 395

<210> 4242
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 4242

agctcggctg aaaagtaccc aaaagtgggt tttgtgaatg ttgacataga tgaggccagg 60
gacgttgctg cacgctggaa tattagcagt gttccgacat tcttctttgt taagaatggc 120
aaagaggttg acagtgtgat gggggcagac aaaagtaccc ttgaaagcaa gattgcacaa 180
catgctggct ctttttaagt gaatacctta taaagatact gatacaatta acattttctt 240
gtttcttgctg ttaacatgtc cattgtgtca taaaaaggc aaagattaat tgagtttcaa 300
tgtattatgg cttgacgttt cgtctgtctg attgcatgta gaaaatgtta atgctgattt 360
gtaataagtt tcatattttc aagctgattt taagtttgtg atgactgtta tggggagaca 420
ccccactagc ttcatt 435

<210> 4243
<211> 434
<212> DNA
<213> Glycine max

<400> 4243

agcttacttg tagagattcc tttatgggaa agaccgatac cagctgtgtt gatccattgc 60
gatagtaccg cggatattgc aaaaattgag aaccgttatt acaatggtaa gaaatgacag 120
atacgtcgta agcacgacac tgtagagaa ttactctcaa caggagctgt tagagtggat 180
cacgtacgca ctgatgataa tttagcagat cttttgatga aaggattagc tagagagaaa 240
gtccataaca cttccaaaag aatgggacta gtgcccttac tgcgatgatc attcatgatg 300
gtaaccgcac ctaaagact ggagatccca agaactaggt tcaatgggta ataacaagtt 360
atgaagtgat atgagatgaa catgcagtta taagtgaag cagcatgatc tctgaagtaa 420
caagaggatg agtt 434

<210> 4244
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4244

tatccccaca agagtgcaga acaactgggtg agtctgcatt gattatatga tgctgaacca 60
ggtaaccgca aaagatcatt tccccctgcc attcattgac caaatgcttg agcgttggc 120

agggtaatct cattatntttc ttcttgatgg tttttctagt tatctacaaa tncatattgc 180
tcttgaggat caagaaaaga ccacattcac ctgttccttt ggcacttttt cctataggag 240
gaatgccctt ggcctatgca acgcccctgg taccttctgt cgcaacctac ccttttgagg 300
gcaagcgagg cgaggctcac gaggtgcctt ttcaaaggag gaaaatgcgc ggagtcgtca 360
ccaacgttta tttgtggaaa acgtcgaata aatcgaagga taccgggtcaa agaata 417

<210> 4245
<211> 449
<212> DNA
<213> Glycine max

<400> 4245

agcttgccctg cattgtgttg ttagcaaggc tcagcatcca gatcccaata gtaaatacaa 60
gaacaaccct tgttcatgtc cctttaaatg ctctacaatt ttagacatat gaatttcatt 120
aatgtatgac taaggctatc atatctgtga aattttaaag tcaaagaaat aaaatgagta 180
agaaaagaac tagaggatga gaacagaaac ctgcaatgct catgtgtatc acctaataca 240
tatccagtgt ctgtagaaaa tccaattaat atcacctaaa ttataagact tgacatagca 300
catatgtaat gtagtataaa aaaacaaaat caaagtaagc aattaatgtc acaaatgctt 360
acagctagac atatcataag agatccgcca taatgaacag tgtcttctgc caccttgaag 420
tacattttatc actccaaata ccaacacat 449

<210> 4246
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4246

aagctgttta tttgcttaaa ttttgatatt tataaatncc aagnccatt aattaatttg 60
ctttcatggt aatcctatntt aaaactatta tatttgatct ttaggagaac attacactntt 120
agcctattaa aaaaatacgt caacaaatca caaacaacat ttatatttta cctcattcag 180
aatataagta aaaacatacc taatttcaca ttgattaagt aaggatgtta attaaattca 240
tttaattttc ttgaattaat atagagaagg aactatatcc tctaaaatat tattaattgt 300
atttataaat tattaattaa ttaacttaat gacattttct ttaataataa cattaaatat 360

ggctaaatta attattattc ttataatnca atctaccaa cataaacatt tnttttatag 420
ctgaatttgt atctac 436

<210> 4247
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4247

nggatttcct ttagtaggga atctatcctt cctaagatgg tagccaacca agtcaccctc 60
attaagaact agctcttttc ttctcttatt gccttttagtt gaatacacct ttgtttgggt 120
ctctatttgg ttcttaaccc tctcatgcat cttctttaca aattctgacc tagattcccc 180
ttctttatgt ataaaaaaag tgtccagtgg gaggggaatg aggtctaacg gtgttagggg 240
attgaacca tagacaacct caaaagggga ctgcttggtg gttctatgaa cccccctggt 300
gtaggcaaat tctacatgag aaagatactc atcccaagac ttatggttgc ctttcagaag 360
agcccttaat aggggtggata aagacctatt cactacctct gttttgcca tcagttgtgg 420
atgaccagtg gtagagaaaa gaagtctagt tcctaac 457

<210> 4248
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4248

gaagctcctg gtttagcttt acccgattnt actcattcta ttgtagttga atgtgatgct 60
agtggagttg gcattggggc tgttttgata caaaacaaaa ggcctatagc ttatttctcg 120
gagaaattgg gaggagccag attgaactat tgcacctatg acaaagagtt ctatgccatt 180
gtgagagctc ttgatcattg gaatcattat ttgcgttcta atcactttat attgcattca 240
gatcatgagt cattgaagta tatcaatggg cagcagaagt tgagtccaag gcatgctaaa 300
tggttgaat ttcttcaatc ttttaatttc tcttcaaat acaaggatgg taagagtaat 360
gtggtggctg atgcactntc aaggaggtat gctttaattt caattcttga aactcgttta 420
ct 422

<210> 4249
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 4249

agcttgctaa cccatggaag ctccaatca ttctcacact ttttggggtg ggccattctt 60
 ggatagcctt gattttctca cggtcactt ggacccatt tttaccaact acaaacccta 120
 agaaaactat attatctaca caaaaggtag acttctctat atttgcgtag aggggtgtttt 180
 tcctaaggac taaaagaact agcctgagat gtcctaagt atcatctacg ctccactgt 240
 aactaaaa atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttagacat 300
 gatgcataac cctcataaac gtgcttggtg tattaatgag cccaaaaggc atcactaacc 360
 attcatagaa actaaacttg gtcttgaaag gggcttcca ctcatcacct tctttca 417

<210> 4250
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 4250

aaaaaaagga aatagtctaa agatttaata tttgttaact tcttgagta ataaaaagta 60
 taaactgcaa tgtgattcta cagaacatct acatatttct gatgtcaa at gataggattg 120
 attattcgga aatatttctc aagaacaaca ggtaatgaat agagaaagaa aaagtatcaa 180
 aattcacaaa gatgtgctac ctcaatttca agtgctgtat atacatcact gaattcaaga 240
 ccattatatt cacgtcctac aattgctatc caatcatgaa cagattccag tttgagtgcc 300
 tgatcacttg ggatcacagt cttccctgaa gatgattt 339

<210> 4251
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4251

agctntanaa gtgtgtagat actatttatt ttattcttag cgaaatgaat tcgctgtgga 60

tacgatactc agtcttaccg tattatatac tacttgtgcg aatcggcaca cttgtcgagg 120
gacgaacagg tacgcggaat gggtcaccaa tatcatgcc a gtacctaata aggatgggaa 180
gggtgcgaata tgcatagact atcgggattt aactgagcca cgccagagga tacactttct 240
ttactgtaca tcgatgttct cgtagataac acgaccaatt ttggcctgtt ttctttcatg 300
gatgggtttt caggctataa tcagataaag atggcaccag aggatatgga aaagacaacc 360
ttcatcactc tatatggaac tttctgtac aaggtgatg 399

<210> 4252
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4252

cgaagganaa ctcgatgcct tgggtcaacct gggtttctcat ctttccatga ataaaaaatc 60
tacacctgtt gcaagtgtct gtgggtctatg ttcttttgca gatcaccata cagatctctg 120
tccttcttta cagcaatctg gagtcaatga gcaacctgaa gcttatgctg caaacattta 180
taatagacct cctcagcagg gaaaccaaca acagcagaat aattatgact tttcgagcaa 240
tagatacaat ccaggttgga ggaatcatca aaatctgaga tggacaagtc ctccacaaca 300
acaacagcct gtccctcctt tccagaatgc tgctgggtcca agcaagccat atgttcctcc 360
tccgatgcag cagcagtcac aacaaagaca acaagaaact gaggtcctc ctcagccttc 420
cttagaagag ttagtgaggc aaatgaccat ccagaatat 459

<210> 4253
<211> 441
<212> DNA
<213> Glycine max

<400> 4253

agcttgtagg gttaaagtct cacgattgtc tcgtgctcat gcaacaattg ttagccgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcctg tgctttttct 120
tccatgctat atgtagcaaa gtcattgatc ctatcaagtt tgatgagctg gaaaatgagg 180
ctgcaattat actgtgccag ttggagatgt attttcccc tgttttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcaaagaaa tcaaatattg tggtcctgtt tatctacggt 300

ggatgtaccc ggttgagcaa tacatgaaga tcttaaaagg gtatacaaag aatttatatc 360
 gtccagaagc atctattggt gagaggtaca ttgcagaaga agccattgaa ttttggtcac 420
 aatacattga gaaggctaaa c 441

<210> 4254
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4254

tcaagaatta tggcctcatc aaactacttg tttcccgagg gatattctat aaatagacct 60
 cccatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaa at ctttatagag 120
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gctggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240
 gtacaatata atttaaaggc caaaaatatt attacatctg 280

<210> 4255
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4255

ttttcggagc cccgtgaatt acgttntcgn tcatgtgtcc ttcattctcg agtttggtgc 60
 catgcgtagt gattgcttag ggcaattctc cattctcaac cttttttcgg agccccatga 120
 attgcgttct cgttcatgtg tcttccacct tcgagtttgg agccatgcgc agtgattgct 180
 tagtgcaatt ctccattctc aaccctttta tcggagcccc aagaatggcg ttttcgttca 240
 tgtgtgtccc atcttcgagt ttggagacat gcgtagagat tgcttagtgc aattctccat 300
 tctcaacccc tctttcggag cccaagaat ggtgctttgt tcatgtg 347

<210> 4256
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 4256

tattgaaatc aaacaagatg ataaattatc ctcacattat attataaata aatcatgagt 60
catcaaaaca taaatcattt gtctaagtca cttgcatcta gaagtcctaa ttttcttcta 120
atgggtgtaga aagaatcttt ggtagtggt tttgtgaaga tgtctgcaag ttgggttttta 180
gtatctacaa gttttaaaaa tacagtcacc ttttctctaa gactaagtgc taattgacta 240
ccaacactta ccaagatgag gttttgttaa catagaaggt tctatcatat aaaaataatt 300
ttattaggaa tacaatataa taattctgaa aagcataaaa ttttctgat caatcaatca 360
agtaattcaa acatatcaaa caagatatat acaacgattg aaggatatag atcacagaca 420
ttatcaaaca ttcagatctg ttaagataat tta 453

<210> 4257
<211> 304
<212> DNA
<213> Glycine max
<400> 4257

gcttctgagg gcctatatgg gcccttgctg aatgcacctc ttaagttggc aggacccta 60
ttttgagttt ttgctcattt cctgttgaac gtccaaaatc ttacgattgg tgacaattgg 120
cttaagcaat tcaatgtgac cagcaaacat ccacatgtcg acaaacaatt gtccccgaac 180
gaaattatgg tatgacacat ggtatgaagt gtgccatctt agagaacctg tccaccacca 240
caaagatgga atccttgtca ttcttgtct gaggaaatcc tacaacaaag tccaaagaca 300
agtc 304

<210> 4258
<211> 417
<212> DNA
<213> Glycine max
<400> 4258

agcttgattg ttaccatgca tggagagata atttgagccc ttaaagaata ttaacattat 60
aattttacat atttgcaat actaaaaaaaa attacttaat aatttaaaag ttagttatgc 120
aattaataat atttatgatt acttaatcaa tagtagattc ttttaattgat aattgaaact 180
gaaaataata aattacttag cgagattata ttttgtttta ttttttaata tgaatatatt 240
acttaatata aatttcttat agtaatatta tttattcact acctattcta tcatatgtcg 300

accaccatta aaccatcaaa acttaaata taatagttgc tatgtctgat gcacctcaaa 360

tacaaaatag gataacgtgt atattatcta aagaatcatc tactacacga tcaaata 417

<210> 4259
<211> 213
<212> DNA
<213> Glycine max

<400> 4259

ttcaaaagat gcgacatgga ccattgcagc tatgttaaga aatatactaa tagttatggt 60

atccttgtcg tgtatgttga tgacatgttg attgcatgat ctagtatggc agaaattaac 120

acgttgaagc agtagatggc agacaacttt gaaatgaatg atcttgggcc agctaaacaa 180

atctttggta taagaattct tagaaataga tca 213

<210> 4260
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4260

ntgagcaaat tctaacgaca ataactatctt acttggtatg tcgataaagt cacgtaatat 60

atcgagtcgc tcgaaataga atacagaagc tgtgagaaaa ttctaacgtc aataactttn 120

tactcggatg tccgattgag tcacgtaata tatcgagacg cccgaaattc aatacagaaa 180

ctctgagcaa attctaacga caataatctt ttacttggat gtccaattga gtcgctgaat 240

atttcgagac actcgaaatt gagtacagaa gctctgagga aattcaaata aaaatacctt 300

ttgactcgga tattcgattg agtcccgtaa tgtatcgaga cattcgaaat tgaatacaga 360

agctgtgagc aaattctaata gtcaataact ttgtactcgg atgtccgatt gagtcacttt 420

atatatcgag acgctcgana ttcaatacag aagctctaac aaatt 465

<210> 4261
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4261

tggtacataa tggaaacaat tttttagta aatttacaaa tacaataatc tcattntctt 60
 tcgatcatca ataataattaa ttgtataaaa taaaattaaa taatgtttgt caataacata 120
 gatatttgta gtaattataa taacaatcat atcaaacaaa aaaacatgtc caacaattgt 180
 tgcaaacttt ttttatatat ctattttctt atatatgagt taactcttgt cacattaaat 240
 atatatatat atatatatat atatatatat aaagctccag gatatggctg aaagtatata 300
 aaaaattatg aatgtctaac acagatacaa gggattatat aagacaaaaa acaaacatgt 360
 caattgagag gaacagaatg agataaagaa agtcccanaa tctcaagggt ttgactg 417

<210> 4262
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4262

agctgggtcat cctaagtaac atgtttaggt tttagtttat cttattgcat gaaacatatn 60
 ctaaaatggt ttttcgctgt tgcattgtta aattgagtaa aaatatgaca tgaaatctaa 120
 tcgttaaata atctaacact aaatatttca tagagatgat tgccaaagta gtacatcttg 180
 ataaaggaca attaaaattt agatgtcact tcgtgaatct tacatgataa aaatcactta 240
 taatagataa ttgttttata aaacacccac tctgataatt aaatttgcaa aataacctat 300
 tttgatatct aaaaaagtct gtaaactagg taaatgggtt aaaataattc ttgttattta 360
 ctctaattcta ataaaaaac atcttattat aatct 395

<210> 4263
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 4263

agcttaccac tgtccgggta ctcttgccc ttgctgttct tcataactgg caccttcgac 60
 aactggatgt aaacaatgct ttccttcacg gggatcttaa tgaagagggt tatatgaagc 120
 tccctccagg acttgttgtg gataatccca acctgtttg tcgccttcag cgttccttat 180
 atggggtcaa acaagccagt cgccaatggt tcacacgggt ttcgtcattt cttctctccc 240
 agggatttcg tcaatcctca gttgatcact cgcttttatt atattctgat aatgataatg 300

atataacagc tattcttggt tatgttgacg acatcatctt gacaggaaat aatctcgaga 360
ctatagcaca tgttaccaag cttctcgatc aaac 394

<210> 4264
<211> 261
<212> DNA
<213> Glycine max

<400> 4264

agcttgaatc ggacatccgt gtgacaactt atgatttttt gaatttcacg agagcttccg 60
tggttcaatt ccgagcgcca ctatatgtga tgcgccaaaa ttggacattc gagtcaaagt 120
tcatgaccat ttaaattcct caagagcttc cggtgttcaa ttctaagcgt ctcgttatgc 180
gattttcctg aatcggacat tctgttgaaa agatatgacc atttgaattt ctcaagagct 240
accgttggtc aatttcgagc c 261

<210> 4265
<211> 439
<212> DNA
<213> Glycine max

<400> 4265

agcttgtggt tgagtgaggt gatattcttt ttatcatctt tgaagccatt aacctctctt 60
ctcaaccgc catagtaatg agaaacagga gcatgtctca gagtaacaac atacacatca 120
ccaaaataat atcctatagt agataaataa tcatattcgg atgtgcctag gtaaataaca 180
aatgtataat gattacacct cacagaacaa catgcataaa tataccagat ctaaacatta 240
tgcaagttat tctgacctac gtttttgtca agagtcttgg tgaactggtc caaagctgga 300
gaaaccttca acctttgctt cagaatcctc ttctctctct gaatttgaac attctttggc 360
cacttcatga accgagtcaa gtctctcttc ggaggcaacg cccctccgac tctgaacttc 420
tttgagcgt tctcaaaca 439

<210> 4266
<211> 450
<212> DNA
<213> Glycine max

<400> 4266

agcttgacat tgaaaataga agctatgagc aaattcatac gacaataact ttttactccg 60
 atgtccgatt gtgtcccgta gtatatcgag actcccgtaa ttgaaaacag aagctcgtag 120
 caaattcaaa cgacaataat attttactca gatgtccgat tatgtcccggt agtatatcca 180
 tacgctcgta attgaaaaca gaagctcgta gaaaattcaa acgacaacaa ctttcaactc 240
 agatgtccga ttgagtgtc taatatatcg agacgctcga aattgaaaac agaagctctt 300
 agcaaattca aaggactata acttatatct cggatgtccg attaagtccc ataatatatc 360
 gagactctcg taattgaaaa cagaagctcg tagcatattc taacgacaat aactctttac 420
 tcagatgtcc gatcgtgacc cgtagtatat 450

<210> 4267
 <211> 366
 <212> DNA
 <213> Glycine max
 <400> 4267

agctcggagc tcggagtctt tttgaagttc ctcactctgac ttgtagtaga atgagacata 60
 ttgtttcacc caagacttga tagcatctca tatctctagc ccatcagaag cataaggata 120
 gtcctcaatc aaaagtcgaa ctccatgggg agcagatgga tccttaacag caactcctct 180
 gaattaaaag cacccaaata acattgatta gcacaagagt tatatcaagc ctgaagcctt 240
 ttttcttctt atgccattga tgacttttta tatcatgcat tcatgtgttc cccaatgta 300
 tgcactttgc gatttctttt ctttcttaat ctattgccca acacaaaact cgagctgaat 360
 ccgaac 366

<210> 4268
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4268

actcagctta gtggctcatg agcaggggaa atgataatca atcaattatg taagatagtc 60
 ttttctatag gagattactg tgaggaagtt ttatgtgata taatccctat ggaagcaggg 120
 cacattntgt taggtagacc atggcaattt gacaagaaag caatccacaa tgggtctcacc 180

aatgaaataa ccctcaccca tggaagcaaa aagctcaaac ttgttcctt gacaccttca 240
 caagtgattg gggatcaagt acaaataaaa ctcaaattga atgaggaaaa gaatagaaaa 300
 agaaaagaag aacaaccttt aatggttaac gaggagtgtg aggaggtaag tgatgtgaac 360
 ctgagtaaga gcggatcggt tgatacaggc tacggagatt tggatgaca 409

<210> 4269
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 4269

tcttaagtca cctgaggcat gcaagcttca agaataacgg tctcatcaaa ttatttattt 60
 cccgaatgga attctataaa taggccttct atttttaatg gcgtgggtta ccattattgg 120
 aaaacccgca tgcaaatttt tatagaggca aaagatctta atatctacga agcaataaaa 180
 attgggccct acattcccat tatggtagca ggaaatacaa ccatataaaa acctacggaa 240
 gaatggagtg aggaagaaaa gagattagtt caatacaatt taaaagccaa aaatataatt 300
 gcatctgctt taggaatgga tgagtacgtt acggtatcaa attgtaaaag tgcaaaagat 360
 atgtgggata ccttacaagt aacacatgaa ggtacaatag atgtaaaaag atccaggata 420
 aatacattga ctctgaata tgaattat 448

<210> 4270
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 4270

agcttcatac aagattatat ggcttgaaac tatcaccgag gcggtggtac acgaagctta 60
 atgaggttat gaccacctca agattcaaca gatgtgacat gcaccattgt tgctacatta 120
 agaaatatac taatagctat gttatcctta tcatatatgc tgacgacatg ttgattacac 180
 gatctagtat ggcagatatt aacaggtaga agcagtcctt ggcaaagaac ttagaaatga 240
 aggatgttgt tccagctaaa caagtgcttg gtataagatt tcttacaaat agatca 296

<210> 4271
 <211> 460
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4271

ggcatgaaga aacgttaaata aaaaaagcac agganaagtt attagggaaa ggtacaatgg 60
gaatntaaaa naattgttga gttatatcaa aactaaaaga ggaaaggaag cccattatac 120
gattacaaat agtgggggact agagagtttc ttttctatct ttttataaat tacattcttt 180
tatttaaaaa attattaaat tataactttt tgttttgaaa tcatacttta ttttgaatag 240
attaatatac attacattga atttaattaa aaatttaatc tatctatatt ttgtttgata 300
aaaaaaaaatt atccaatcca tttattaact atttttaaaa ataaacatta atatttatat 360
antaatttat acccagatac tcttgaatat ngattcaagg attccttaat gaacggtgta 420
gtatctaatt caatagaata catattatat taaataattc 460

<210> 4272

<211> 580

<212> DNA

<213> Glycine max

<400> 4272

agcttaaggg ggagtgctcg tctcgaaaat gggatatttt tttgtacatg ctttcagata 60
gttgtcatca tcaaaagagg gagaatgtga atgaatatgt atgaagattt tgatgatgcc 120
aaagacagaa gcaatacaag tttacttcaa gtccaaatca agatcatgta aacaaaatat 180
caagagaaaa aaccgcctt agtctatctt tggtaaaaga atctcttaat gattgaaaag 240
gtttggcctc aaaacataat ttttaaatta attataaaaa gttttaaaat attttaacat 300
ttctgaaaaa aggaattttt cctctggtaa tcgattacta gaagttgtaa tcgattacca 360
gaagcaaaat tgttttaaaa gcttttcagg aagttgaaat ttgaattttg aaaactgtag 420
tcgattatca tttgtatgta atcgatcacc aataacggaa ctcttgaaat ttcaaattga 480
aaaggcatga tccctcattg cataactatg taatcgatta ccagtgagga aaattgaaaa 540
attgctttga aaagtcacat cctttcatga gtttttgaaa 580

<210> 4273

<211> 596

<212> DNA

<213> Glycine max

<400> 4273

agctttaatt agattgtttt ctatctacaa tttaaaagaa aatctttatt agattccttc 60
ttttaaaagc tttattagat tcttgggtaa caaccagaaa ggaaatgaat attaaaagag 120
agaggataaa gttacgaaac tatactgtat agccgaagaa gttcttaaata taaataatga 180
aatcattgga acaaaaaata gggttatatat atatatttaa aacacacaca cactgcgttt 240
tgaataatca ctaaaacttg agacttgaga gcgcagctaa gctaagctga tcatgcaaga 300
cataaaatta agaagtggga ccaattgtgt agaagtttaa tcctattctc cattagccta 360
aaggtaaaag ggtagacagt acacactaca tagtacacac acaaagatca tgttaaaagt 420
taaaacgatt tttttcttag aaaataatat ttggtgaaaa aattgagcaa aaaagaccat 480
tctagaacca atagtaaaaa ataactataa acttatatat atgccagcaa cataattttc 540
tgctaaaagt gtatactcgc attaaagcaa aaccagcctt ttttttaaaa gaaaaa 596

<210> 4274

<211> 444

<212> DNA

<213> Glycine max

<400> 4274

ttgggtggaa aatgatagt agactcaact tggatatcaa ccttgtgcta caacaattgc 60
aacaagaccc actatccaca atgagagaac aatttttgtt taaaacctta catcttgtat 120
gaaagatgtt ctctctttga gttaggggta gggtacaaga ttgactccca aggagccttc 180
tcaccattag aagattacct tcttcatagg tgtaaaccctc attaatatgc tcatcaccct 240
tggcttcacc cttacttcca tttgaggagg gagaagaagt agcctcctct tggctactat 300
agatgtcttg actcctcatg atcgtgggtt tctttgtggg gcattgagaa gcaatgtggc 360
ctttcccaat acatttgaag cacttgatgt tactagtctt atcttgtgaa ctagcctttg 420
gagtgatttc ctctatgttt ttac 444

<210> 4275

<211> 374

<212> DNA

<213> Glycine max

<400> 4275

ttcaagcggg gtgcatgtga gtaaccaggt ttcccatctg gttcgtgcaa ctctgaatgg 60
aggctcttgc cttttgctga gaatgcgtat gatggagggt gattagcctg acgaagcctt 120
atacaaaagg tatacgagga gccttaaagg cctgatcgat atcgtgtgaa ccgctgctgc 180
ataggaggaa gccacttag cttgtttgtg ccaaaagaat tttttaatgg atggacaggc 240
ttgggctgat agcataagac ttgaccctc ttataataag atgataccta cttcctgaat 300
tgtgaatgaa ggaagaaatg ctctggttat tcagtactag aaggtgtttc cgctgacgag 360
gtccattatt gatg 374

<210> 4276
<211> 562
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4276

agcttattgg gcagtgaaga cttgcaactt ctttatggac caagctggtg aggaaagaaa 60
gttgcaactg agtgagttag atgaaatccg cctagaagcc tacgagaacg ccaagttcta 120
caaagaaaag accaagaagt tccatgatag catgatagtt aaaaaagact tcgtgggttg 180
gctaaaagtg ttattgtata attctaggct tggactcatg agtggttaagt tgaggtctaa 240
gtggattggt ccttttgttg ttactaatgt ttttccttat ggtacagttg agatcaaaag 300
cgactccaca aacaagagct tcaagggtcaa cggacatcga ctttaagccat tcctcacgaa 360
cccttcttta gtggacgtag tgggtgaaga gacttcctta ctccacccta ctcttcctcc 420
accatgactt anggagtttt tcttttcccta tctccttccct tgcttttatt acacttgtcc 480
gattcttttt gatgatttaa ttgtttttaa tcttttaatt gtgctacatt gagggcaatg 540
tgttgtttta gtatgggggg gg 562

<210> 4277
<211> 373
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4277

tgccgccacg gagttttccg actatgcttt tgtgtggtgg aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
 gcggtatgtg cccgctagtt actcaaggga cttgaaattc aagctccaaa aactaaccat 180
 aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgattttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc aggagtntgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtggag caa 373

<210> 4278
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 4278
 agcttgcgca tccaatacct tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
 catttgcttt caaagtttca tggccttgca ggtgaagacc cacacaaaca tttgaaagaa 120
 tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catattttctg 180
 aaggcttttc ctcatcatt acagggagtg gcaaaggact ggctgtatta ccttgctcca 240
 aggtccatca cgagttggga tgaccttaag agagtattct tagaaaaaac tttccctgct 300
 tccaggacca cagccatcag gaaggatata tcaggtatta cacacactac tggacagagc 360
 ctgtatgagt cctgggagag atttaagaaa ctatgtg 373

<210> 4279
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 4279
 aagcttggtt catctgagta accatctttt ccatctgatt tgtcaaacc tgaatggagg 60
 ctcttgcttt ttgctgaaat cgcattttct ggatggatcat ttgcctaact aagtcttcta 120
 aaaaagggtt cggaggagcc ttaaagcgtt gttgactttg ttgtgactgc tgcggtattg 180
 taagacgaac atatggcttg tttggaccag caccattctc ttaaggaggg acaagatgct 240
 gctgatgcct aggacttgct catctcacat ttacatgaat cctccaacct ggaatgtatc 300
 tgatgcttga aaagtcctac acattctctt gttgctggac ttacagatga ggaggtgtat 360

aataaatggt tgcaccctaa ccttccagac gctcactgac tcccta

406

<210> 4280
<211> 585
<212> DNA
<213> Glycine max

<400> 4280

agcttgatata catgattttg aaatttatga tcctcaaaaa actaggagat tgggaaacaa 60
aaacttcctc atcaatatat ccatttaggg aaacactctt tacatccatt tgggtacaact 120
taaaattcat tattcaagca taagcaagaa gtaaccttac aacctctaata ctagctaccg 180
gtgcatatgt ctcatcaaag tctataccat cttgtgggtt ataacctttg gctacaagggt 240
gagccttgaa aacctatttt cctagttata acactatttt catcaagctt gttcttaaaa 300
acctatttag ttcctatgat gttcaagtta ttagtacttg ttatcaattc ccatacatca 360
ttccttttaa attgatttaa ctcatcatgc atagacataa tccaaaactc atcttttaata 420
gcatcatcaa aatttaaggg ttcaacttaa gacacaaaag ccataatgttc acaaaacaaa 480
cttaaagagt gtctagtaga tactctcttc tcaatatcac caatgatatt gtcaatatat 540
agatttctag gggttcacca ttctttggga agatcttctg atggg 585

<210> 4281
<211> 439
<212> DNA
<213> Glycine max

<400> 4281

tctaaacctt gtacaagaat gaagctctga taccacttgt tatacaagtg gcctcagata 60
tcttaagaag ggggggttga attaagatat tccaaactgt ttcccctaata taaaaatcta 120
tttcaacttt tactcaagtt atgaattccc ttaatgacaa tcttcttaaa tattaattca 180
aatgaaacaa tttgaatatg aatataaagc aataataaat aaaaggagat taagggaaga 240
gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtccc 300
caagcaaccc gcttgagagt tccactatct tgtaaattcc tttacaaat tctaaacaca 360
caaggacaat tcttcctttg cgatatagat cctttaccca agagactcac agtctcttaa 420
tcccttagag aatgagaag 439

<210> 4282
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 4282

tagactcagc tcgtcttacc atccacaaac agacggtcag actgaggtgg caaatcggat 60
 agtagaacia tacttgaggg ccttcgtcca tcgcaagcca gcgttggtgg gacgatttct 120
 gttgtgggca gaatggtcgt ataatacttc gtgccattcg agtacgggat taactccgtt 180
 tgaaatcacc ttcgccgaaa accaccagct atccctgaat acataggtgg aacatcacag 240
 gtgtcatacc ctaatttcgt ccggggacca tccgtttgtt gggatgacac cctcgtttga 300
 ccacttcgag gtacttggca cccatcgta ggcaatctgt gaagtttcgt gacatgctgg 360
 aagtcaaaag gaagcattgt tgcacaatcc gtgaagtcc atgacatgct ggaaatcaaa 420
 aagaagcatt tgtgcacaat ccgtgaa 447

<210> 4283
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 4283

tctgcttata aaggctatgg gatggtgatc ttgcatgaga acagctctta cccccactcc 60
 taaggcatca acctccacta taaaagtctt tgtaaaatca ggtaaggcca atacaggtgt 120
 ctgacttaac tgatccttaa gacactaaat tgcaagcttg gcttcctctg accaagaaaa 180
 actatctttt ttcaacatgt catttagtgg tttggctatg gtgctatata tccgcacaaa 240
 tcttctataa tctccttcca aaccacaaaa tctctcctaac tatttggggg tctaaggaag 300
 tggccaattc ctcatcgctt ccaccttata agggtcagta gagactcctt ctccagtgt 360
 aaaatgtcct aagtattcta ctgaataac cccaaagtag cacttagatt tcttggccaa 420
 caagacattt gctc 434

<210> 4284
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 4284

tgccaaccca tggaagctcc taatatctcc cacacttttt ggggtgggcc attcttggat 60
ggccttgatt ttctcagggt cattttggac cccatttcta ccaactacaa accctaagaa 120
aactatatta tctacacaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180
aaagactgaa agaacttgcc tgagatgtcc taagtgatca tctaggctcc tactgtacac 240
taaaatatca tcaaataaaa caactacaaa tctacctatg aaatccctca agacatgatg 300
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacia aatttgggtct tgaaagcggg tttccactca tcaccctttg tcatactgat 420
ttggtgatac ccacttttaa gatcaatttt tga 453

<210> 4285

<211> 419

<212> DNA

<213> Glycine max

<400> 4285

agctttaaga aaaatcaaac gacaataagt ttttactcag atgtcggata aaggcccgt 60
aaatatcgag acgctcaaaa ttgaaaacag aagcactcaa caaattcaaa cgacaataac 120
ttttgactcg gatgtccgat tgtgtcccgat aatatatcga gacgctcgaa attgaaaact 180
gaagctctga gaaaaatcaa acgacaataa ctttttactc ggatgtccga ttgagatccg 240
taatatatcg agacgctcat aattgaaaac agaagctctt agcaaattca aacgacaata 300
actttttact cggatgtccg attgagtcgc gcaatatatc gagacgctcg taattgaaaa 360
cagaagctct gagcaaaatc aaacgacaat cacttttgac tccgatgtcc gattgagtc 419

<210> 4286

<211> 675

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4286

atcaaacttg gagaaagagc tcttgggggc tatacatgan aaccaatcaa gcataatggt 60
acttttctca ctaaagcggg gatccatctc cacacatatt ttatcaatag ccacataaaa 120

aatctctgca cggcaatgat gaaaattagt gatagatctc ctttctgctc ttgaacgacc 180
 ccgaactggt atttcgtcat ccatatttgg ttccagaata ctttttagcaa cacaaaaatcc 240
 ttggacatcg gcaaaaaaat tattccagcc actctttcat tgtgcccac cgagctttga 300
 caacatcaac taattccatg gcattcacia tataaagacc ttctctttgc catatatggg 360
 aaagctcgtt cgcaatccca acaacttta ccattacccc aaaataaaaag caaatttaag 420
 ctctacaatt atttttgaaa aaattggcac atgccaaacc tccatttcaa ttttttcatt 480
 taaaaccata cccttaggca acccttttta accccggggg ggaaccacaca tttttgtatt 540
 ccaaaccaaa cgccacttgt ttgtttatcg aaagggtgga aacccccccc attttttata 600
 gtttttcccc cggggggtct ctcaagtggga gaaacaaaat aggaattggg cgtgtaaaag 660
 cccccccct ttccc 675

<210> 4287
 <211> 658
 <212> DNA
 <213> Glycine max

<400> 4287

agctttgagc caatatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg aagcggaaaag aatagaaggg aaatttcaa tcaaagaaaa ggaaagaaaag 120
 aagatttcca atcaaagaga aagcaaacia agaaaagaag gaaaattccc caatcaaaga 180
 gtgggagaaa gccaaaagaa aagaaagaaa attcccaatc aaagaatggg agaaagtaaa 240
 aaaggaagaa gaagaaggaa agaaagctcc tgatcaggga tcgaaggaaa acagaagaaa 300
 tgtgcagaaa ggtctttgga ccggacaata tctgaacaat acagaattgt caccaaata 360
 aaaaaagaa ggaaaggaaa ccacgaccta aaatggtctt ctccctttga ttaccaacca 420
 aaatcccgtg cgctagcgac tttttcgccc cgcactaaac aaaaacagaa aaagaaaacg 480
 ccaacaaaaa aatccaaagc caaaaacaca caaaagccga aaaacccatc aagaaaaccc 540
 atttcccaag gcaagtccta ttgatccatg atcacgcatg taatttttga tttgataaga 600
 aataatttgc acagtccagt catgacatat ctatggtttg gaattaggat gaaacact 658

<210> 4288
 <211> 389
 <212> DNA

<213> Glycine max

<400> 4288

gaatggagaa ttgcactaag caatcactac gcatagctct caactctaag gtggaggaca 60
catgaacgaa aacacaattc atggggctcc gaaaaagggg ttgagaatgg agaattacac 120
taagcaatca ctacgcatag ctccaaactc gaaggtggag gacacatgaa cgataacgct 180
attcatgggg ctcccaaaag attgagaatg gagaattgca ctacgcaatc actacgcata 240
tctccaaacg cgaaggtgga ggacacatga atgaaaacgc aattcatggg gctccgaaaa 300
gattgagaat ggagaattgc actaaacaat cactacgcat agcttcaaac tcgaaggtgg 360
aggacacatg aatgaaaatg caattcatg 389

<210> 4289

<211> 512

<212> DNA

<213> Glycine max

<400> 4289

agctttgagc aaattcaaat gataatagct ttttactcgg atgtccgatt gagttccgta 60
atatatcgag acgctcgaaa ttaaatacgt aaggtagtag caaattcaaa ccagaataac 120
tttttactgg gatttccgat tgagtcccgat tataaatcga gaattctgaa attgaatacg 180
aaagctctga gaaaattcaa acgacaataa cttttttctc tgatgtccga ttgagtcccg 240
taatataccg agacgctgga aattgaatac ggatgctttg agcaaattca aaagacaata 300
aacttttact cggatgtccg ttgagtcct atagtatc gagaggctcg aaattgaata 360
cataagctcc tagcaaattc aaaccaagga ggaatgatga gaaaaagaaa ggaattgctc 420
ttaaagcttc atcttcaact caaggaagaa gtgataagga ggatttcaat gaaatagacg 480
aagatgatga tctcagtctt tttgtaaaaa ga 512

<210> 4290

<211> 477

<212> DNA

<213> Glycine max

<400> 4290

tttaagttct tctcaaaac tgcctaagc aaagttccct agtcctatt aacaacttcc 60

gtttgcccac cggtttgtgg gtgacaagtg gttgaaaata acaatttagt gcccaacttg 120
ctccacaaag tcttccaaaa atggcttagg aacttagagt ccctatcact aacaatgctc 180
cttggcaaac catggagtct cacaatctcc ttgaaaaaca aatcagccac atgggaagca 240
tcatcaatth ttttacatgg aataaaatga gccatttttag aaaacctatc aacaaccaca 300
aaaatggaat ctctaccatt gcttggtttt ggcagcccca aaacaaaatc catggataaa 360
tcaatccaag gatactccgg aattggcaat ggagtataca atacatgagg ctttacctta 420
gactttgcct ttttacatac aatgcaatgt tcacaaaatt tctgcacatc cttttta 477

<210> 4291
<211> 572
<212> DNA
<213> Glycine max

<400> 4291

agcttggtga agctcatctt gagtgatgta tccacttcca tctttatcaa aataagcgaa 60
agccgcaact aaatgatctt ccctgtcaac cttgtttaga tgcaatgttg cagctatgaa 120
ttctccatat tcaattgtgc cactgttctc aacgtcagcc tgtaaaccac aacaaaattg 180
ggttccatgg atcaaaaataa tatactacta aaagattata ccttttctaa ttttattacg 240
cactatcaat atatcattat aataaaaatg tcttattaaa tgatacttag aacacctctt 300
tgcgcttgat cataatcata aacaatgaat agcaaacaat aaattgctcc caggatccag 360
gtgccatgaa aaattagtta cgcctcccta tttatgcatg aaatccactt taatgtaatt 420
ataataatag cataaccagc atataaaaat aagagaacaa tgcaacaaat tctttgaaag 480
tctcctctta acactattat tatgtgaaaa ttgaaatcct aggctatccc cactaaatgg 540
aagacatgga gaaaatgtat gttttatgaa at 572

<210> 4292
<211> 406
<212> DNA
<213> Glycine max

<400> 4292

tttcaactct ttttgcaagg tcaatttgtt ctcaaaattt caaagtgttc attcaccag 60
gcgcagattg aatatttgca tcacgttggt tcaactcaag ggtccaacc agttgcctct 120

aaagtccagg cagttcaaca ctggccaata cctcatagca cgagagcttt acgcagcttc 180
 tttggtttgg ccggattcta tcaaggttta ttcgaggata tgtctttttg acagcaccat 240
 taacatcttt gatgatgaag gaaccttttc tatggcttac agaagctcaa cttgctttta 300
 ataagatcaa ggaagcctta tcctctgctt tggttttgtc cctccctatt tcacccttcc 360
 atttacagtg gaaacagatg cttttggaca ggtattgggc gtgttt 406

<210> 4293
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 4293

tgtaatcgat tacacgcata ctgtaatcga ttaccagagg agtttttcag aaaacattct 60
 caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatgtgtga 120
 cttgagacac gaatttcata agagtttttc agaacaaaaa ggtcttatcc tcttatagaa 180
 caaaaagggtc ttattcaaat tgttctatct gaatcaatat ttaagaaatt cattattaag 240
 ggaatttata acttgaatag aaagttaaatt agaattttta attagggaaa taagttgtaa 300
 tatcttaatt caaccccccc cccttcttaa gatatatgag gccacttgct caacaccata 360
 gattcaaaca gaaaacgtta atgaaacatg aagcagaaac gtacattacg gatacgttga 420
 tgagacagaa a 431

<210> 4294
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 4294

cgcggcacgc agcctccatg actaccggga cttgaaccga ccccggccta aagacaattt 60
 ttccctgccg cgcattgatc tattggtaga taatacaacc aagttgccac attttcttat 120
 ttatggacgg cccctccggg tataaccaa taaaaaggtt ccccgacat gcacagaaga 180
 cccctttcgt aaccctatgg gggacgttct gctatacagc gatggccttc gggctgaaaa 240
 atgctggggc aacctatcag c 261

<210> 4295

<211> 514
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4295

tgcatttaaa aatgttttaa aaatactttt aattaatatt tgtattttta ttcctttatt 60
 aatatatatg tgaggggtag aggggtgtcac aacatgtcctt gaagttaatt ttgacagttt 120
 tgaattttga aattagatac gatatatattt taacacatgt tcatattatg ttttgaatct 180
 ttccaaccct atttagtggtc ttatatctctt ttaaaagata taagttattt cctttgtgca 240
 acattgattt actcagcttt gttgtaagtt gtttttggtg gaattttttg ttccaataat 300
 taatgtgagc taatattata agacaattat attagttatt tatcattagt gagttttatt 360
 ttatgtgatc agattaattg agtccgtag acaactaaat cagatgatgt agacttagat 420
 gaacatgtgt tggccatta taggataatg ataaccctat taagttaaca tactataaaa 480
 aggctgttgt ccncaatata ccagccatca cata 514

<210> 4296
 <211> 400
 <212> DNA
 <213> Glycine max
 <400> 4296

cgcttaacca attagatgga acaattggct acacagttaa atcaacacca ctcccataat 60
 tttgacatat taccttctca atctgtccag aatccccaaa atgtgagtgc cattgcattg 120
 aggtcgggaa agcagtgtct agaacctcaa ccagcaacat cttcctcatc cgcaaagaa 180
 cctgcccac ttcactctac tccacaaaaa gatgatgaca aaaatttaaa gagtaagata 240
 cataacaatt tctatgcacg tgaatctaaa gagaagcagg atatcccttt tccattccct 300
 ccaagaccaa ttttcaacaa aaaaaaggaa gaagtataga acgagatcct gcaaacattt 360
 ataaaagtag aggtaaacat acctttgctg gatgcattaa 400

<210> 4297
 <211> 384
 <212> DNA
 <213> Glycine max
 <400> 4297

tggctctggc caccagaacc atctgattct taagctcatc catcttatta cagatgttgc 60
 tgtcatgcaa gtgcttttct gcatcaaaca aatcaaattt gatcttttga tcattttacac 120
 ccattttcat tatacctttc cccatatcca ccacacaatt ggcgattaac atgaatggac 180
 gacccaaaat cagtgggata tcagtatcct cttcaatgtc catgacaaca aagttcgcac 240
 agaaggttaa ctgttgcacc ttgacaaaaa catctttaat cactccataa ggtcttggtta 300
 tagatctgtc tgctagctat agtgtaattc taactggcat aatcttcaac tctccaattc 360
 ttctgcacat ggatagcgac gaaa 384

<210> 4298
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4298
 ctataggaga cggaccattc caagtgttgg agaagattaa cgactatgcc tacaagattg 60
 acttggttag tgagtataat gtaagtgcc aatctcaatgt gtctggtcta tctctttttg 120
 atgcagatgg aggagccttg gatttgaaga caaatccttt tcaagaagga gggagtgatg 180
 aggacatttg ataaaaatttg gtgagagggt ctctctgggt tccttggtga accaattatc 240
 agacttatca aggtaatcct tgtggcgtct acccagactt atcttccttc attggaagtg 300
 gcgtctaccc ggacttatct tccttcaccg gaagtggcgt ctaccagac tta 353

<210> 4299
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4299
 tctcgggtata ttatgcacct gaatcagacc tccgggtgac aagttatgac catttgaatt 60
 tctcgagagc ttccgttggt caatttcgag cgtctcgata tcttatgcgc ttgaatcgga 120
 cctccgagtg aaaagttaag accatttgaa ttgctcaata gcttccactg ttcaatttct 180
 agcgtctcga tatattatac gcctgaatcg gacctccgag tgaaaagttg tgaccatttg 240
 aatttctcga gagcttccgt tgttcaactt agagcgtctc gatattttat gtgcgtgaat 300
 cagacctccg agttaaaggt tatgaccatt tgaatatctc gagagcttcc gttgttcaat 360

tgcgagcgtc tctatatgtg atgcgcctg

389

<210> 4300
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4300

taagctcctt caactgcaca aggcctcttaa tatttgaaga gtatccttgt ggaaccttca 60
cccgacaaag aactgaaaa aaacttatct tctccttttt ggacaaagta tgagaagctg 120
ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctatgatcgt atccccatct 180
tagctagatc ttgacgggta tttgtcgcaa atgccctttt gcgggcgtgt gaggcgaggc 240
tcacgtgtgc gctttccaaa ggaggaaaga tgcgcggagt cgccaccaac gtctatgtgt 300
ggaaaacgtc gganaaacca aaggaaaccg gtcaaaatga aaattctaag ttcgggaatt 360
gtatttacg 369

<210> 4301
<211> 592
<212> DNA
<213> Glycine max

<400> 4301

agctttcaaa aattttctct tatcgtcaaa agttaagtcc aggtaaaata tttattttct 60
tccatcataa ctcttgatca atgtacatgc atacactatc aaatctcaaa gatatttcat 120
tattctcaga aaaagcaaca tcacttgtaa ctttcctcac actatttggt tcttatatca 180
tgtctttgag tgagaaaaat gataaaaaga aatttcttca aatgcccac caaatcgatt 240
gagtaacaca attattaaaa tagaagaaaa tttaaaataa ttttgttcac tcttaattta 300
tataatctgc actaataaaa atagaattat ataatatgcc atgtaatcct aaagaaacgg 360
gactattaaa agaattatta aaaaaaaaaac atttaaaatc atgataagaa tgtattagta 420
atattattta agacaattat taagtactat ggaaaaaaat gtaaaattaa ttatatcttt 480
atgaaattat ttgtatacaa taactttttt tttctaccg tcatgaaaag gataggaaga 540
caagagatac acttacagta tgttatagta accttataac actagatgat gt 592

<210> 4302
 <211> 483
 <212> DNA
 <213> Glycine max

<400> 4302

agcttgtgca ttcaatatcc tgatgttggtg tttcatatgt tctcaaaaact agactaatac 60
 atttgctgcc caagtttcat gatcttgcag gtgaagatcc tcataagcat cttaaggagt 120
 tccatattct ttgctctatc atgaaacccc ctgatgtcca acaagatcat atcttttctga 180
 aggcttttcc tcattctctg gaaggagggg cacaagattg gctatactac cttgcgcccc 240
 ggtccatttt cagctgggat gagcttaaga ggggtgttctt ggagaaattc ttccctacat 300
 ttaagaccac taccattaga aaataccatt taggcatcaa acaacttact ggagagagct 360
 tgtatgagta cctagaaaaga atcaagaaat tgggtgagag ctgccctcac caccagattt 420
 ttgcaaaaact cccttttcca tatttctatg agggaccttg ccaacatgga gaggagtatg 480
 att 483

<210> 4303
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 4303

atcaactctg aacaaaagag atcaactcta cacactagag atcaactcta cacactaaag 60
 atcaactcta cacacatagg tccaacactt gatgttaggg tagcatcaag gtggctcaca 120
 aaagactcaa gtcccaaaaaa cttactaact aactctttaa tcccggactt ggtacaaaaa 180
 ctcggtgcagc ctccatgatt atatagcaat ctgcgtttct gggcttgaaa ctttttgatg 240
 ctggaggaga tatatctttt ttgaaaaaa tctgccgtta aagaaactaa aagaaaaact 300
 tttgaacttt taactagaat cctccaatcc taaatcttat aatcccctaa cgaact 356

<210> 4304
 <211> 578
 <212> DNA
 <213> Glycine max

<400> 4304

gcatgcaagc ttctcaccta accactaccc gtgcgatctc tacctaagac ccaatcttag 60
 atatgagaac ctccgtttac tccctctcac tcacactctc gtgtttacaa ttaagtcaaa 120
 gacacaccag agatcaactc tgaacaaaag agatcaactc tacacactag agatcaactc 180
 tacacactag agatcaactc tacacacata ggtccaacac ttgatgttag ggtagcatca 240
 aggtggctca caaaagactc aagtcccaa aactcactaa ctaactcttc aatcccggac 300
 ttggtacaga actcgtgcag cctccatgat tatatagcaa tctgcgtttc tgggctgcaa 360
 cttcttgatg ctggaggaga tctatcttct tctgaaaaaa tctgcagtta aagaactaaa 420
 agataacttt tgatctttta gtttgaatct ttaatcttta atctttaatc cctgaacgaa 480
 cttttctact ttgaaattcg aacttttatt atcttttaat tcgttcccag aagatagatc 540
 atctaactctc ttgctaactg cacaataatc tgttaaag 578

<210> 4305
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 4305

agggctaaag tctcacgagt gtcacatggt gattcaacat ttgttagcag cggctatacg 60
 agacatcttg ccaaacaaaag gcaagttatc cataactcgc ctatgctttt atttccatgc 120
 catatgtagc aaagtcggtg atgctgacta atctgatgag ctggaaaatg acgctgctat 180
 tatatcgtgc cagttggaga tgtatttacc cctactttc tttgacatca tgattcactt 240
 gattgtgcat ctgggcagag aaatcaaata ttgcggacct gcttatttgc ggtggatgca 300
 cccggctgag caaccaatga agatgttaaa agggatatacc aagaatctat atca 354

<210> 4306
 <211> 632
 <212> DNA
 <213> Glycine max

<400> 4306

cctttaaact cagccactaa atcgatcata caaatatcac atgccatcaa atacagatat 60
 cactttctaa ccagaatttt acttccctgg ccactatatt gtagcgacta cttacaaatc 120
 ctaaacaac agattaacta aaatttcaag tttcatgcta tacactctac actatatctc 180

ataccagctc cttttattag tgatcattat tactatgtat tccaagtttt tagaaagata 240
 agtcctagca taacaagtag aataagaaaa aagattgatg ttaacatgga agagatgaac 300
 taatttaatg aatccttcat atttaaatat aagggtaaaa tatatacacc ctctgaactc 360
 tgaattattg ccctatatca gcttaccctt taaagttcat cattatTTTT ttctttaact 420
 aagtatctct ccttctatct cttctaaatg tctctttcaa aaacactaga aataactgaa 480
 aacaaattac aaaaaccaa tgcaaatgat cccaattatc aaatatttta attaataata 540
 aattaactac atctagttca aatacataat gtaaataata ctatataacc attactacca 600
 aaataagatt ataaaataca tgaataaaat aa 632

<210> 4307
 <211> 579
 <212> DNA
 <213> Glycine max
 <400> 4307

cttgccccctt gatataatttg agggactcat ggtcactatt aatgacaaat tccttgggat 60
 aagaggtagt gttgccatgt tttcaaagcc cgtactaacg catacaactc cttatcataa 120
 gttgaatagt taagggtagg accacttaac ttttactaa aataagcaat tggatggcct 180
 tcttgcatca acacagcccc aatcccaaca tttgaagcat cacactcaat ttcaaaagat 240
 ttttgaaagt ttggcaacgc aagtatgggg acattagtta gcttttgctt aagaacattg 300
 aaagcttctt cttgtttctc tccccatttg aaaccaacat ttttcttgag cacttcattg 360
 agaggtgctg ccaatgtgct aaaatccttc acaaatcgtc tataaaaaact tgctaagcca 420
 tgaaaactcc tcacctcggc cacagactta ggtgtaggcc attcttgaat aaccctaacc 480
 ttctctcat caacttgac tcttttgaa ctcacaaca aaccaagaaa cacaacatgg 540
 ttaataccaa agatgcattt ttttaagattg gcatacaat 579

<210> 4308
 <211> 452
 <212> DNA
 <213> Glycine max
 <400> 4308

gcttgacatc tattgatata tcatacaacc agtttgaggg ccacttcct aaaactgtag 60

ccttcaacaa tgctaaaatt gaagcattga gaaataataa aggcttgtgt ggaaatgtca 120
 ctggcttgga gcgttgccca acatcaagtg ggaaatctca taatcatatg agaaagaaag 180
 tcataacagt aattttaccc attactttgg gcatttcta attggcatta tttgtttttg 240
 gagtctcgta ttatttatgc caagcttcaa cgaaaaaaga agagcaggct acaaatttac 300
 aaactccaaa catatttgca atatggagtt ttgatggcaa aatgatattc gagaatatta 360
 ttgaagccac agaaaacttt gacagcaagc atctcattgg ggttggaggg caaggatgtg 420
 tttacaaggc agtgttgccct acaggtctag tt 452

<210> 4309
 <211> 545
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4309

ccctggaagc tnctaataatc tgccacactt tttgggttgg acctattttg gatggccttg 60
 attttgtcag ggtgtacttg gaccccatth ctacaaacca caaacctaa taaaactata 120
 ttatctacat aaaaggtaca cttctctata tttgcataga gggttttttt cctaagaact 180
 gaaagaactt gcctgagatg tcctaagtga tcatctaggt tcctactgta cactaaaata 240
 tcatcaaaat aaacaactac aaatccctta agacatgatg cataagcctc ataaagggtg 300
 ttggtgcatt agtgagccca aaaggcatcc ctatccattc atacaaacca aacttgggtc 360
 tgaaagcggg tttccactca tcaactctct caatcctggg ttggcgataa ccacttttaa 420
 gatcaatttt tgaaaaaatg ttggcatcat gcaactcatc aagtctagga atgggggtgcc 480
 tataactaaa gtaatgttcg tgatggccct gcaatctgta cacattctcc acttaccatc 540
 ctttt 545

<210> 4310
 <211> 505
 <212> DNA
 <213> Glycine max

<400> 4310

ttcttatttt cagatgatgc agatgggttt ttaattacct tatgcactcc ttaatgact 60
 atggcatcat ttttggcgct aaactgctgg gagtgggagg ctttctctt aattaaattt 120

ctgggttttag caggagtcac gtctgcaagg gctccaccac tggcagcatc tatcatactt 180
 ttctccatat gactgagtcc ttcataaaaa tattggagaa gaagctgggc cgaaatctga 240
 tgggtgggggc aactggcaca tactttctta aatctgtccc agaactcata caggctctct 300
 ccactgaatt gtttaaatac ccgagatata ctttctgatg gctgtgggtcc tgggagcccg 360
 gaaaaatttc tctaataata ctctcttaag gccatcccag cccgtgatgg accttggagc 420
 aaggtattac aaccagctct tttgccctcc cttgtatgaa tgaagaacag cccttaaaaa 480
 aatgtgtatc tttttggaca ttagg 505

<210> 4311
 <211> 571
 <212> DNA
 <213> Glycine max

<400> 4311

tttaaatttt atttagtgaa aaagatgagg gtacttaata aactaagagg ggggtgaatt 60
 ggatttcaat aaaaacgaac ttttaaaatt atagttacaa aaactttttt tggacagatt 120
 gtattacaaa actttttataa tctaaattta attaattcac cctttacacg aaatccctta 180
 ttaaagttat tttttttaca aagatatatt tttgaacctt tttaaaattg attaatacta 240
 gaatgagaga taaagattaa attaagggaa gaattataca acctttttat attggttgac 300
 tttatattag aagagaagct aatctagtta tctaattcaa aaccagaatt agatttccat 360
 tatgtatata gaatctttta aagtaattaa aactaattta caattggtag catagaaaaa 420
 agattttatgt atcttaaaact taggttttta gtgaataaga acctatgaga aaatttacct 480
 tatgtggaaa ttatataaac ctattctagc atgtttttat ggatttattt acaaaaaaaaa 540
 ttattttgta aatccttatg gtataaccta g 571

<210> 4312
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 4312

gcatgcaagc tttagcaaga ccttagacaa caatatgaaa tcatttagtg actattttgt 60
 acatattcaa gtgatcacca aattcaagga attggtaatg gtctcattcc aagtgtactg 120

gatgttcac tactaaatga agttaatcag gtaccttcgt atagtcttgt cttcaagctt 180
 gtgtctcttc acgtctggaa tatgaatgta gcatatagat ccaaagaccc ttaggtgctt 240
 tcctgatggc ttcttcccg tccaagcttc aattggagtc ttgtctttta cagacttagt 300
 tagacatctg ttgagtatgt aaatagcagt gtagactact tcagcccaaa atgtgttaag 360
 gagtcccttc tccttgagca ttgatct 387

<210> 4313
 <211> 529
 <212> DNA
 <213> Glycine max

<400> 4313

agcataattg agtttcaaac ttatagtcta tatgttctat ccatactttt gctgatccat 60
 tgtttatggg gttagaaagg gtcataattg aatcctaacc atgtagccta acttcttatt 120
 tcttatctcc cttcttcaga aaaaataaat ctacattaac taacataata tatatcgga 180
 acaatcttct agatattatt tatcaatgtt cgaggcgata ttacatggaa aaaaatggta 240
 ccttgcgagg attatcttcc ttggtgaggg gagagagacg agcgacgaag agagtgcaat 300
 aagggctctc agcagccctg ggatcaccaa atgggtcatc tgcaaaattc aatttgtaag 360
 cataaaatgg aacacaaatg aaatttttga aaaaggaaaa tgaatatgaa gaaaaaaca 420
 acaaaggcca atggaggaac agagttgagc gcgaataacg gcgttgctcg gaggaacaac 480
 atcggtgccg tccatgctgc caacttgtat gggatggtat gaatctgcg 529

<210> 4314
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4314

agcttgcttn tacaatctcc ccctttttga tgttgacaac cctaaaatca agaaacacat 60
 ggcattctt tttctagtc gatcactcac ttaattctcc atattcttcc ctttggtttt 120
 tgagtttaag cttcacttga aattaagcta ttttaattata tgagttcttg atttaatccc 180
 tattttctct ccccttttgg catcaacaaa aagccaaagt gtgtagaaa tataaaacat 240

acataaatga ttataaagca taataccaaa tgtaagcaca tatcactaga catatgtcat 300
 caaaataatt aagcttaaaa ctcataacaa ttaagagtaa gtcaatataa tcatgttaag 360
 ttataactaat caaatattaa aagaaatact aagcattcaa acgtcataaa aatataaatc 420
 atttgggtaa gtcactagca tctagcagtc ctaattctct cctaattggg tagaaaagaa 480
 ttttcgttac tgggtttgtg aagacgtccg aagttgattt ttactatcta aaaattctaa 540
 aacact 546

<210> 4315
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 4315

aaacgacaat aacttttttac tcggatgtct gattgaggct cgtaatatat cgaaacgctc 60
 gagattgaat gttgaagctc tgagccaatt caaacgacaa tatcttttta ctcggatgtc 120
 tgattgacgc ccgtaatata tcgagacgct cgaaattgaa tgttgaacct ctgagccaat 180
 tcaaacgaca ataacttttt actcggatgt ctgatagagg ctcgtaatat atcgagacgc 240
 tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt tactcggatg 300
 tctgattgag gcccgtcata tatcgagacg ctcgaaattg aacggttgaag ctttgagcca 360
 attcaaacga caataacttt ttactcggat gtctgattga accccgccat atattgagac 420
 gctcgacatt gaatgttgaa gctctgagcc aattca 456

<210> 4316
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 4316

agcttataaa aaaaggaaag gatcaaggaa taactactct tagacacaag tttattcaac 60
 caacaaagaa agtagtccaa ataatagaaa ccaacaagga tgaggttgta gtgaagatca 120
 aggaatagga cgaggtcata gacaaggaca aggccatggg aaaggctcaa caaatttcaa 180
 agaggagaaa tctcaacaag aggtcatggc caaggcaact caagatcaag gtatgacaag 240
 tcaaatgtga aatttaacaa ttgtggtaaa ttttacaatt gtggccaagg caactcaaga 300

tcaagggatg accctttatt gacgacttgc atgattaatg aaagaagaaa agacaattaa 360
 tggtagctag acactgggtgc aagcaatcat atgtgtggaa aaaagatcat gttgggtggag 420
 cttggtgaat cgatgaacgg aaatgtggct ttt 453

<210> 4317
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 4317

ggaagcaggt taaaagctct tttaaagca aaaatgttgt ttttacttca aaaccctttg 60
 aactacttca cattgattta ttgggtccct ctagaactat gagtttgggt ggaaattact 120
 atggcttact aatagtggat gattactcaa ggttcacatg gactttgttt ttgaaaacaa 180
 aaaatgaagc ttttgatgct tttcgcaaac ttgccaaggt gattcaaaat gaaaaagggtc 240
 tcaacattgt ttcacttaga agtgatcaag gaggtgaatt tcaaaatgag tcttttgaaa 300
 acttttgtga agaaaatgga attcaccaca atttatctat cccaagaaca ccacaacata 360
 atggtattgg ggaaaggaaa atagatctat tgaaaaagat gcaaaaaccc ttttaaata 420
 aacaatgtta cttaaggact tctgagctga tgtgctacac actatttgtt 470

<210> 4318
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4318

tttttaagga aaagangggg tgtggggagg ttgaaattat tagaggaaag acgcatgcct 60
 atgttgatgt ggaagaatta ttcataattta cctgggttaa cgttattaga gagaaatcag 120
 aaatctttga agtattttaa gagttgagtt taatatttca aagagagaaa gattgtgtta 180
 ttaagagaat aaggagtgc tatggcagat agttagaaaa cagtaggttt attgaatttt 240
 gcaaatatga aggcatact tatgagttct gtgtagtcac tacaccataa cataatggaa 300
 tatttgagag gaaaaacagg actttgtaag aggatgaaag ggaaaatgat ttatgcaaaa 360
 aaacttactt taatctatgg gttgaaggca tgaa 394

<210> 4319
 <211> 535
 <212> DNA
 <213> Glycine max

<400> 4319

ccgtcgaact tctccattcc attctgctg gaaatagaca cctccggcgt aggaatgggt 60
 gcagttctat cccagaagaa ccacacaatc gccttcttca gcaaaccctt ctgttctaag 120
 ctccttcgtg cttccactta tgtcagggag cttgtcgcca ttaccaccgc ctttaaaaag 180
 tggagacaat acttattagg caatcctttc actatttctca cagaccaccg tagcctcaaa 240
 gaattaatag gtcaggccat tcaaacacct gaacagcaat gctacctggc acgattacta 300
 ggctatgact atacaattca ctatcgtgtc ggaagatcca atgcagcagt cgatgccctc 360
 tcacggtagc caaaagaagc cccctttggc caattttttc ttctaaccat tccatacttc 420
 cttttttttt gcaagaactt aaacaacaac tcctcaacaa tcccttcttc gtggactttc 480
 accgctgcat tcaagacaat ccttctcaat accctgacta ctccatacgt tatga 535

<210> 4320
 <211> 556
 <212> DNA
 <213> Glycine max

<400> 4320

caagcttcaa catcagacca cttccagggt gctggtaact acttcacatg gatttgatgg 60
 ggcctatgca ggttgaaagc cttggaggaa agaggatgc ctatgttggt gtggatgatt 120
 tctccagatt tacctgggtc aactttatca gagagaaatc agaaaccttt gaagtattca 180
 aagagttgag tctaagactt caaagagaga aagatttgtt catcaagaga atcaggagtg 240
 accatggcag agagtttgaa aacagcaggt tcaactgaatt ctgcacatct gaaggcatca 300
 ctcatgagtt ctctgcagcc attacaccac aacagaatgg catagttgag aggaaaaaca 360
 ggactttgca agaggctgct agggctcatgc ttcattgcaa aaaacttccc tataatctct 420
 gggctgaagc catgaacaca gcatgctaca tccacaacag agtcacactt agagaggcac 480
 tccaaccaca ctgtatgaaa ttggaaaggg aagaaccac tgtcagcact tcacattttg 540
 ggagtccatg ttacat 556

<210> 4321
 <211> 539
 <212> DNA
 <213> Glycine max

<400> 4321

gtgggatacc caatttgatc atagtttcca agcccttatt gaaaagttga tgactgctcc 60
 cgtgctagtt ttgcctaacc tgagagaatc ctttgatgtg tattgtgatg catcagagat 120
 ggggttagga ggagtataga tgcaaaatgg ccaagtagtg gcctatgctt ctggacaact 180
 caagactcat gagaggaatt atccccacca tgatctatag ttggctgctg tagtttttgc 240
 ccataagatg tagaggcatt acctgtttgg ctccaaattt gaggtgttta gtgatcataa 300
 gagccttaag tacttgttta gttagaaaga gttgaacatg cctcaaagga gatgggttaga 360
 gtttcttaaa gattatgatt ttgagtttag ctaccatctc ggcaaagcca atgtagtggc 420
 tgtcgccttg agtaggaaat ccctacatat atatgcattg atggttaaag agctggattt 480
 cctaaacaat ttagagacct tagccttgcg tgggaggta ccttttataa tgtgagatt 539

<210> 4322
 <211> 572
 <212> DNA
 <213> Glycine max

<400> 4322

tataatatct tattacgctc gaaattaaac atcagaagct ctcgagaaat tcaaattggc 60
 ataacttttc acctagatgt ccgattatgg cgaatcacat atcgagacgc tcaaaattga 120
 acatcggaag cccttgagaa attctaattg tcataacttt taactcggat gtccgattca 180
 ggcgcacac atatcgagac gctcgaaaag gaacaacgga agctctcgag aaattcaaatt 240
 ggtcataact ttccacactg aggtccgatt aaggattata atatatcaag acgctcgaaa 300
 ttaaacatcg aaagctctca agaaattcaa ttggatcatc cttttcacac ggatgtccga 360
 ttcgggcgca taatatattg atacgctcga aattagacat cggaagctct cgaaaaattc 420
 aaatggatcat aacttttcac acgaatgttc gattccggcg aatcacatat cgaggacgct 480
 caaaattgaa caacggaagg tcttgagaaa ttcaaattgt catacatttt cacacggatg 540
 tccgactcat gcgacatata tatctagacg ct 572

<210> 4323
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4323

agctttcaag aaattcaaat ggtcataact tttcagatga aagtccgatt cggccgcata 60
 atatatctag acgctcaaaa ttgaacgccg gaagatgatg agaaatttaa atggtcataa 120
 cttatcacgc ggatgtctga ttcaggccaa taatatatcg agatgctcga aattgaacaa 180
 tggaggtctc gagaaattca aatggtcata acttttcaat tggatgtccg attcaggcac 240
 atcacatatc gagactctcg aaattgaaca acgaaagctt ttgagaaatt caaatgggca 300
 taagttttca gacggaagtc cgattcaggc gcattatata tctagacgct cgatattgat 360
 caccggaagc cctttggaaa tttaaatgg 389

<210> 4324
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 4324

aagaacacaa tcatcccgtg agttggaaga gaacaaagga atcatagagg aggtcaatt 60
 atataactct ggtctaatag taataaaaca tacgtagtaa gcagtgacag tgccggcaga 120
 gttgccacca acgagcttga gttgcatatc gatcctccca aataggtact ctttcttgga 180
 ttggaagccc ggaccagaga ctttgtccag agaaagagat agaagctgcc caccattgaa 240
 tatcttagca cggatgatcac cccatgggtg atcaaagtct tggttgaagt 290

<210> 4325
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 4325

acattgtctt gaaagttcta ttgttgaatc atggctatgg gatcgaagat ttggccacct 60
 tcaacacaca tgccttgaag ttgttacatg agaagaacat gatgagagat ctttccagcc 120
 taaaggagaa caaccaatcg tgtgaaggat gtcttcttgg taagcaacac cgatttcttt 180
 tttaacaagc agaacatgga gagcgaaaga tctattggag ctgatacata ccgacggttg 240

tggacccatg aggacgccct cccatgagaa caacaggtac ttcatactct tcattgatga 300
 cttctctaca atgacatggg gatatttttt aaaaaaaaaac ttaaaagtct ttggagtatt 360
 tcaaaagctc aaggccctt gctgaaaatc aaagtcgaaa accggtta 408

<210> 4326
 <211> 543
 <212> DNA
 <213> Glycine max

<400> 4326

agcttaacaa aaggcatgcg aagtgggtgg aattccttga gcaattccct tatgttatca 60
 aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120
 tttctatgct tgaaacaaaa ttgattggta ttgaatgttt gaaaagcatg tatgaaaatg 180
 atgaaacctt tggagaaata tttaaaaatt gtgaaatttt ttcagaaaat ggtttcttta 240
 gacatgaagg ctttcttttc aaagaaaata aattgtgtgt gcctaaatgt tctactagaa 300
 atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360
 ctctataaac attacaagaa cttttttatt ggccttatat gaaaaaggat gtgcaaaaat 420
 tttgtgaaca ttgcattgta tgtaaaaagg caaagtctaa agtaaagcct catggattgt 480
 ataactcatt gcccatccg gagtattctt ggaatgaatt atccatggaa tttgttttgg 540
 ggc 543

<210> 4327
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 4327

atctttttcg tgaagaaaac ggggtctata cttttaattt tcacgtccag tgccaaatct 60
 tggatgttgg acacctagtc attaacagga atgacaaact tggttctcca tacaggattt 120
 gcttttccaa aattaacaac tttggtgcaa tatttgctat tatgatcaat ccaccaaca 180
 gcaaaccatt gacgcttcca aagtgaaggt gaaatctgga gttcatgtgc agatttaaag 240
 cttaccttca cccatataat ccccatagaa agtgcaggaa agaaaaaatg agatgttcaa 300
 gggatgatgt ctctgtaag cttttttata taatgggtgg gcagcaaac gaaatgaacg 360

tttttacctt tcgaatgata ctttactttg aaatcacaat ttttttatac ccaaactccc 420
gttttggtag ggcccacatg gctcatgccc agttgtctaa tttttccccc ccccccttgt 480

<210> 4328
<211> 575
<212> DNA
<213> Glycine max

<400> 4328

gcaagcttgt taaaaaattt tacaagacga gagggaattg gtttttacat gctattacta 60
gatttgccac ttggttatct aaccttggaa aggctccaca aagagaaagc caatattaga 120
aagatgttta cttctaata ga atggacctta aacaagttat ctaaggaacc taaggggaaa 180
gaagctgcaa aggtagtgtc catgccttct ttttggaaata gtgtgattta cactcttaaa 240
gtcatggttt cacttgtcaa agagcttcgt cttgtggatg gggaaaggaa accaatcatg 300
gactatTTTT atgaagcaat ggacaaagga aaagaaacca ttatcaagtc ttttaataac 360
aatgaaagcc agtacaagaa tgtggttgca atcattggta aaagatggaa ttgtaagctt 420
tatagggcat tgcattggc tggccacttt ctaaattcaa agttctttta tgacaacatt 480
gaattgggat tttgagtttt aggtcctcaa tgggttggtt gaatggcata aaaaattggt 540
ttcacaattt gatgtgctac aaaaaaattt taact 575

<210> 4329
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4329

gttaacctgg taacctaaagt ggttatgatt taaaaatntg nacctgtttg cagactttgt 60
ggtttatgct cctctatcga ccaccacaca aaccttttgc cttctgtgca acaatctgaa 120
gcaattgaac aggctgaagc ttatgctgca aacatctaca acagacctcc tcaacctcac 180
caggacaatc cgccaccaca gaataactat gaccttttca gcaacaagta caatcctgga 240
tggaggagtc atcccaacct tagatgggtc taccctttac aacactccca ataa 294

<210> 4330

<211> 585
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4330

tataaacttt gttacctgac attttgctct gttctcatct aaacgagtta aagcatgaaa 60
 attttttgcg ggaatgtag gagcattctt caagcatatt aatgcactgc atttaaatac 120
 acatgaacgt ttgcataaac aggcacaaca tgcaatttca agtttactca taaaaagcca 180
 agcttacttt gtattgcaag ggtttccac tactataact ttgacattgc gggatgcaac 240
 ggcatttaaa gctcttccct gttgtacaaa aggtataatg tcattataat taacttcaact 300
 ttagcagaaa gcaataagta tggtttaaat ttcattatca ttttacctgc gctgcataaa 360
 tctgcccatt tatgtctaac aagtctgctc gttccattcc aggtcctcga ggctttgcac 420
 ctattagcaa agcccattct gcatcttggg acactttata aggatcgata ccaataactga 480
 cctccctcaa caaaggaaac aaagagtnct ccagttccat tgcaacacct gcatgttgaa 540
 atataacatt tagaatgaaa agcatcatgt gtggtattta tacct 585

<210> 4331
 <211> 491
 <212> DNA
 <213> Glycine max
 <400> 4331

atcttctaga cagtggtttt ataaactctc tacttcatta attgagaatg gtttctctca 60
 atcaaagaat gactattctc tttttaccat tggcaaaggt gcttctctgg ttgttctggt 120
 agtctatgta gatgacattt tgcttgctgg cccaagtgt acatgtgttc attctgttca 180
 ggccaagctt caagccttgt tcaaactgaa gatccttggg tccttacaat attttctggg 240
 cctggaagtt gcaaagtcca gcaagggcat tgttttgact caaagaaaat atgccctttc 300
 tcttttagag gatactgggt ttcttggtg caaacatcc tctcttcaa tggatccaaa 360
 tttaaagctc gacatgtca gtggtgattt gctgcccgat ccctcaatgt acaggtgctt 420
 acttggtcgt ctcatgtacc tcaattattt aatgcccga attacatttt ttgttaacaa 480
 gctaagccaa t 491

<210> 4332
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 4332

tcaaacttgc aacaaaggag ttgagcaggt aaaaaagatt cgtcttcaaa ctcttagagg 60
 tgactttgag cgtttggtta tggaggagtc cgagtcaatt tctgattatt tttctcgagt 120
 attggccgta gtcaatcaac ttaaaagaaa tggatgaagat gttgatgagg tgaaagtcac 180
 ggaaaaaata cttcgaactt taaatccaag ttttgacttc attgttacca acattgaaga 240
 aaacaaggat ttaaagacca tgactattga gcaactaatg gggttccttac aagcatacga 300
 agaaaaacaa aagagaaaaa ttaaacaaaa ggaggctacg gagcaactac tacaactcaa 360
 cgtaaaggaa gcaaactatg caaattacaa gagccaaaga ggacgagggtc gcggccaaga 420
 tcgtggacgt ggaccacgac atggaggaga acgaacacgc ggtttcccca accactcc 478

<210> 4333
 <211> 580
 <212> DNA
 <213> Glycine max

<400> 4333

agcttcaaca atcaatttcg agcgcctcga tattttactg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtttg aatttgctca gtgcttcaac attcaatttc tagcttctga 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt atcgtcgttt gaatttggtc 180
 agagcttttaa cattcaattt agagcgactc gatataattac gggactgaat caaacattcg 240
 agtaaaaagc tattgtcatt tgaatttgct ttgagcttca ccattcaatt acgagcgtgt 300
 tgatgtatta cgggacttaa tcagacctcc gagcaaaacg ttattgtcgt ttgaattagc 360
 tcataggttc aaaatttcat ttccatcgtc tccatttatt tcgggactta atcatacatt 420
 ggagtaaaaa agtgtttgcc cattgaattc ttctagagct tgaaaattca gttttggaac 480
 ctcttgattt ttaccggac ttaattaaaa catcccgga aaaagggttt tgtcaatcgg 540
 aattagctcc aaactttaaa attccctttt taaggcgttt 580

<210> 4334
 <211> 483

<212> DNA
<213> Glycine max

<400> 4334

tttttagtaaa attaaataaa taaataaata tagagcaaata aataagatga gtaccctagg 60
tataaatagt tatgttaagt cagctgcctc ctttttggcc tcattttcgt ttattccttc 120
tcttctcaaa accctttctt tttttcgcaa cccaccaaac ctatcttaga aaaacgacga 180
tctcgaacct gttcaccgtt ggatcgtcgt gaaatttgag tatcatgttt gcaacccaat 240
tttgaatatt ctcaccgttg ggaatttcaa aatcatatct gagcttagag gaaaaccctt 300
cgcattgtag cattttaatt tcccgcagaa acccaaaaact gtctcggtaa aactaggatc 360
ccagtttcgt tagccgttgg attttcatga aatttggata tgttgttcga aattcaattc 420
ctcacacttc caccctggtg aattgcgaga taatattcgc gaaaggagaa aaaggaatcg 480
cat 483

<210> 4335
<211> 395
<212> DNA
<213> Glycine max

<400> 4335

agcttataca gatgttgact atgcaggatc aataactcat aggagatcca ctttcagata 60
ttgtaccttt ctaggaagaa acttggtaac ttggagaagt aaaaaacaaa atgttgtagc 120
gcatctaga gctgaagcta aattgcgggc tatggcacia ggtgtttgtg aattgctttg 180
gttaaaaatc atcttataag acttgaagat taaatgggat gaacctatga agctctactg 240
tgataataag tcagcaatca gcatagccca taatcctgta cagcatgac aaacaaaaca 300
cattggagtg gatagacatt ttatcgagga aaagttggat aggggtgtga tatgcgttcc 360
atatgtgcct actgaaggta aaaacgcagg ttttt 395

<210> 4336
<211> 711
<212> DNA
<213> Glycine max

<400> 4336

agctttaatg tgtagataaa aggattttgt tgtaagaat tgaattatgc gtgactgtaa 60

tcaaaagtgt tggaaactat aattataggc gataaaaaaa ttgcattaat tatattggta 120
ctaatagtgt ttataatatg tttatttttaa ttcacatgta tttgctctaa aaatatataa 180
tcagagtagt caaataactca aatcctgatt tttaaaaggt ttatcttttt tgtttttata 240
cattaaatta ggacttggtt tgtgcaatag ataaacaaag atagaatact ataagattat 300
agaataaagt tgataaactc ccaagggttcg ttttacacat tagtttgatc ttgttggtga 360
tgcttatata ataatagaag cacattttac ccgttattaa ggcgaaacat tatattttaa 420
tacctttaaa caacaaagcc aatttatatc taatgaatgg gagtaattct taaattggcc 480
ttttaatgat catagggtccc aaattaaaac attcatatat cgctatatta tttttcccaa 540
aaaatttgggt taacattagt ttttcaaaag tttgaaactt gtttatcccc aaaaaattaa 600
aacatccctg taaaaaccaa atttcaaaaa ataaaaatat tttttcataa aaaaaataat 660
cgттаатagt tatatagaac ttaattttgt gacagttaag tttacaaat t 711

<210> 4337
<211> 489
<212> DNA
<213> Glycine max

<400> 4337

tgtttcaaaa aatccattcg gttctgattg gcttgtgaga ggcgggttta aggactaaat 60
cgcattattca ttccttttga attgattcaa ttcattcctt gctttgttca agatccttat 120
tcggagattc atcttcaagt gtagtgtgct tattttgaaa accaatatct tcatttatgt 180
gaatctcacc aattttggct tcacaaacgt gacaacaatt cttgttgaat tcatttttga 240
agcctttgtc acatagttga cttatgctca aaagattatg ctttaagtcca tcaacacaca 300
acacattttg tttatttgag tcttgtattg atttccaatg tttccttcac ccataattct 360
tcccttatta ttgtcttcaa aagtgcata tccaccttcc ctttaacacaa ggtcagtaag 420
tttagacttg tcaccggcaa taagcctaga gcaaccacta tccaagtacc atagtgagtc 480
ttttacttt 489

<210> 4338
<211> 596
<212> DNA
<213> Glycine max

<400> 4338

agcttattca gcggtggtggg ggccagaaat tttttttatg caaatttcat gcagtactgc 60
tacttataat ttgacgtaca gcaaaataat gtggttcagg atgcctgggtg atatgatcat 120
gcactcagtg ttagttgtca tcttatctac actgtttcag agctatcaat tccgatagga 180
cagctccata tgccttgggt ttttccaaaa gttgttttga cgtgtgtaac accaccttat 240
caaacaatgg ccaacataaa gcctccactt gtaaccaaat gagacgtgcc taaatgtatc 300
ctcacatttt tagtgcatta ttcggtattc catacttttg caggcatgct ttggacatgt 360
tttcttcatg ttatgctgga gtacaactgg aagggtattt ctgactgatg aattataagg 420
caacacagat agatagcaag agatcataga ccattatatt tctgagggtt gacattatac 480
atctgtttta tttcaagcgg attcacacca aaaaattaga taggattatc ttagctacta 540
taacatgcaa cggtaatttt tgataaagtc cttcaaggca acaccatag cccctg 596

<210> 4339

<211> 401

<212> DNA

<213> Glycine max

<400> 4339

agaatcggac ctcaagtga agagttatga ccataagaat atctcgggag ctatcgttgg 60
acattttcga gcgctgtat atgagatgcg cctgaatcgg acatccgagt gaaaagttat 120
gaccattaga atctctcgag agctttcgat ggttaatttt gagcgtctcg atataatata 180
agcctgaatc ggacatcagt gtgaaaacat atgagcatgc taacttctgg agagcgttcg 240
ttgtacattt tttagcgtct atatatgtga tgcgcatgaa ttggacatcc gagttagaac 300
ctatgaccat ttgaatgtct caagagctat cgttgaacag tttcgagcgc ctagatatat 360
cataagcttg aatcagacct cagtgtgaaa acgtatgacc a 401

<210> 4340

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4340

cttgatgagn aaattggaga ggттаатгаа асаасгага гагагагага агагагага 60
ggatcaaатг гагаатгага атсстаатгга агаагааага агагаагага ггаатгагага 120
tgttcctaga caaaagcgaa ttgatggat taaactcaac attcctccct ttaaaggaaa 180
gaatgatccg gaggactact tggagtggga gatgaaaata gagcatgttt tctcgtgcaa 240
caactatgag gaggaccaa aggtaaagct tgccgccacg gagttttctg actatgctct 300
tgtgtggtgg aacaagctac aaaaggagag agcaagaaat gaagagccaa tggttgatac 360
atgggcagag atgaaaagga tcatgaggaa gcggtatgtg ccgtctagtt actcaa 416

<210> 4341
<211> 333
<212> DNA
<213> Glycine max

<400> 4341
tatacgagac atcttgccca acaaagtccc gttcacgata actcgctgt gcattttctt 60
ccatgctata tgtagcaaag tgattgatcc agtaatgttt gatgagttgg aaaatgacgc 120
cgcaattata ctgtgccagt tggagatgta ttttccccct gctttctttg acatcatgat 180
tcacttcgat gtgcatctgg tcagagacat cacatgctgt ggtcctgttt atctacggtg 240
gatgtaccgg gttgagcgat acatgaagat ctttaaacgg tatacaaaga atctatatcg 300
ttccgaagca tctattgttg agaggatcat tgc 333

<210> 4342
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4342

agctgttttc tctgtacacc tacattccta tacacgaaaa actttttcta tatacacacg 60
cgttgaaaaa ctctttctct ttatatcgac atggtctata taaaaccttt attccttttc 120
aaagatttct ttttctttt tcaacatata ctcatgttt atacaaaaat tttctttata 180
tacactcatt gctcacacac aagaatttct tttcacacat tgtttatata caaaaaaac 240
ttttcatata ttntttttat atacaaaaac tcttttcttt tctttatata cagatatggc 300
attntgttca caatgcctct ttctttttct attctcgggg tatcacgacg ttggtcattt 360

atttaggacg acgtcctaaa tgaaactcta cacggttccg aatttaacaa catatcgaca 420
taacaagta 429

<210> 4343
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4343

gtgatctggg atngtgaaat ctctaagagt tcgaggtcac atggatgtaa tttgaaattc 60
atcaaagcct cttggagctt actgaaggaa gatgtcaaaa gatttcttac gaagtttcat 120
gttaatggtg tgttccctag aggtcgcaat gcatcattca tcaccttgat acctaagatt 180
gaggatccac aaaatctggg ggaatttacg tccatttcac tggtaggatg tatgtataag 240
atccttgcta aaatccttgc atgaagacta aaaggtgctt tggtagtggtg attgacaaaa 300
cgcaaatcgc cttcttgga gggagaaact tacttcttgg agtcttggtg gcaaataaac 360
tagttgataa ggcaagaaga acggaaaaga agtgcttagt tnttaaagtt gactatgaga 420
a 421

<210> 4344
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4344

atctatacaa aggaatttat atggtgcagc ctccaagact ccattaagat tccttgggtg 60
agggtgggaca tagtctgcct acctaagagt aaaggtgggt tatggatcaa agatttgatt 120
aaattcaatg acgctttgct tgctaaatgg gggtaggagt tggcaaataa tcagaatcag 180
tgggtgggcca aaattctatt gtctagatat ggtggttgga gggatttgat ttctgatagg 240
aactgcagtt tatactctcc ttggtggaaa gacctcaagg ttatcttcaa gcagcagcaa 300
agcaacacaa ttngcaaaaa tagctgtatt tacgccatac gtaacgacgg tccatggaat 360
acaaaccaag tactcattgg cttgacaaca aaggagacac tcattggaaa tatatatg 418

<210> 4345
 <211> 444
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4345

acaatgtcat gtgataaatg atctaataaa aacatgagaa caaatcaatt nttttctaaa 60
 tttaggaaaa aaaaaattaa acccaaaaaa taaaaatatt aaaaaagtat ttaatcttat 120
 gtttatatat aattatttac aaaaaatgta taattgatgg ttaagataag catgacaatg 180
 aagcaccacg agattgtatg ttattnttta tacttgtttc ctagcatcgt ctccatcccc 240
 cgtcctttgt tccaatgag gataataaac aatataga gagagagagt ataaatactc 300
 ataacaataa tagttaccat agatacttac ataacatgat tataactgtg tagagcttat 360
 ttaatgagaa ccaagactaa tatgattaag atatataata tattgtataa aataacacta 420
 tctatttagc tttgatatat ctat 444

<210> 4346
 <211> 432
 <212> DNA
 <213> Glycine max

 <400> 4346

cttcattctc cacttttatt cggagcccca tgaattcata gccaaagcgt gttcatgcat 60
 cctccaccaa cgagtcagga ggctcgcgaa ttgattgcca agcgtgttc gccagttctc 120
 cattctccac ttaattctg agcccatga atttattgcc tagcgtttt catgtgtcct 180
 ccaccttcga gtctggagcc ccggaattg attgcctggc gctgttcgcc aattctccat 240
 tctccacttt tattctgagc cccatgaata cattgcctag gactgttcat gcaccccca 300
 ccaacgagtc tggaggcctc gcgaattgat gcctagcgt gttcccagc tctccattct 360
 ccacttttat tcggagcccc atgaatatat tgcttagcgc tgttcatgtg tcctccacct 420
 tcgagtctgg ag 432

<210> 4347
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4347

agcttcaact tctctcacat aactctcctt agtcaaactc ttcttttatt taatgttttag 60
gggttggttt acaaccctca tgttccatta tataacatac accatataga atcaataatg 120
gacataacaa tatacataat agtttttcat agaggtctta gccttcacaa tacaacata 180
gaatatgtca tacaacatcc atattagaat cattgatttc atctcattat gacactaaga 240
tcattcagcta acatcatgat attcattgga ctcatacacc actccttaga atcatacaaa 300
taaagaaatt atttctattc catcaaccac acatacaata tatcatatta ccacacaaaa 360
gaatcataag aataattcat agctctacta caggtcatac gttatagagc catgtacttc 420
aagtaataaa taatcatgga ccacttnacc cataattatc at 462

<210> 4348
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4348

ntgcanaaaa tgccactcta ctcgaaattt ttgaaagata tgttggttaat gaaaaacaga 60
tacatccacc aggagaatat tgttgcgga ggcaactgca gtgctgtaat acagagaatt 120
cttccaccaa aacataaaga ccctggaagt gttactattc cttgttcaat cgggtgaagtc 180
actgtgggaa aggctctcat tgatttggga gcaagtatca acctaagcc gctctccatg 240
tgcagaaggt tgggagagtt ggaaatcatg cccacacgaa tgactntact acttgctgac 300
cgatccatca caagacctca cggngtaatt aaggatgttc tgataagagt gaaactacgg 360
tctttccagc tgattttgtg gtcattggatg tggaggaaga ccatgangtt ctagtcattt 420
ttggacatcc ctttatgtc 439

<210> 4349
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4349

gacatgatta gcaatcaagt ataatgttac ttccttcaact aaagcgggga tccatctcca 60

cacatatttt atcaatagca acataaaaaa tctctgcacg gtaatgatga agattagtga 120
tagtctctccc ttctgctctt gaacgacccc gaactgggtat ttcgtcatcc atatttggtg 180
ccagaatact tttagcaaca caaaatcctt ggacatcggc aaaaaaatta ttccagccac 240
tctctctcat tgtgcccac cgagctntga caacatcaac taattccatg acattcacia 300
tattaagatc ttttctttgc aatatattng aaagctcatt tgtttctat gacctggatc 360
acgcacaatc tcatttgggt aaactcataa ccaca 395

<210> 4350
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4350

ctgaatgctc tattcaatgg agttgacaag aatatcttca tacttatcaa cacatgcaca 60
gtggccaagg atgcatggga gatcctgaaa accactcatg aaggaaacctc caaagtgaag 120
atgtccagat tgcaactatt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180
tgtattcatg acttccacat gaacattctt gaaattgcc aatgcttgac tgccttggga 240
gaaagaatga cagacgaaaa gctgggtgaga aagatcctca gatctttgcc taagagattt 300
gacatgaaag tcaatgcaat agaggaggcc caagacattt gcaatatgag agtggatgaa 360
ctcattgggt cccttcaaac ctttgagcta ngactctncg atagggtga aaagaagagc 420
aagaatctgg cgttcgtgac caatgat 447

<210> 4351
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4351

ctcaagcatt gaatgctcta ttcagtggag ttgacaagaa tatcttgata ctgatcaaca 60
catgcacagc ggccaaagat gcatgggaga tcttgaaaac cactcatgaa ggaacctcca 120
aagtgaagat gtccacattg caactattgg ctacaaaatt cgaaaatctg aagatgaaag 180
aggaagagtg tattcatgac ttccacatga acattcttga aattgccaat gctcgactg 240

ccttgggaga aagaatgaca gatgaaaagc tggtagagaa gatcctcaga tccttgcccta 300
 agagatttga catgaaagtc actgcagtag aggaggccca agacatttgc aacatgagag 360
 tggatgaact catnggttcc cttcaaacct ttgagctagg actctcggat agggctgaaa 420
 agaagagcaa gaacttggcg ttcgtgttca atgatg 456

<210> 4352
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4352

aactctttct tttgtttagt caaaacttct aatgctctta atctctcctc gtctaaatca 60
 actaactcat ctgacatcat tttccaataa tggtcgattg gaatgtccat ttgtttttgt 120
 actctggctg attgcaaagtg tatttcgacc ggaagtacag catcgtgcc ataagtcagt 180
 cgaaatgggg tagtattagt tgattcctta ggagaatttc tacatgcca tagaacttga 240
 tctaacgttt tattccaatt tcttggcttt tgggcaatgt gttttttaat caagttaatt 300
 acaatcttat tggctgcttc gacctgacca cttgcttgcg cgtaatatgg tgttgaggtt 360
 aataatcgaa agccagtttt ttgggcaaatt tctttcattn ttcgtccagt aaaaactgaa 420
 ccttgat 427

<210> 4353
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4353

agcttgtagg gttaaagtct cacgattgtc acgtgttgat gcaacaattg ttagccatgg 60
 ctntgcgaga catcttgccc aacaaagtca ggtaaccat aactcaactg tgctttttct 120
 ttcatgccat atgtagcaaa gtccttgatc ctgtcaagtt tgatgagctg gaaaataatg 180
 ccacaattat actgtgccag ttggagatat aatttcgccc tgctttcttt gacatcatga 240
 ctcaacttgat tgtgcatctg gtcaaagaaa tcgaatgtcg tggctcttggg tatttgcggg 300
 ggatgtaccc gcgtgagtga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360

gtctagaagc atctattggt gagaggtaca ttgc

394

<210> 4354
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4354

agctntaagc aaattcaaat gacaataact ttgactcgg atgtccgatt gagtcatttt 60
ataatttgag acgctcaaaa ttgaatgcag gagctcttac caaattcaaa tgccaataac 120
tttttactcg gatgtccgat tgagtcccgat aatataatcta gatgctcaaa attgaaaaca 180
gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatccga ttgagtcatt 240
taataattcg agacgctcaa aattgaatac agaattctcta agcaaattca aatgacaata 300
acttttgaat cgtatgtccg attgagtcatt tttaataatt gagacgctca aaattgaatg 360

<210> 4355
<211> 392
<212> DNA
<213> Glycine max

<400> 4355

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcata 60
aatctgtacc tgtcgcaagg gtttgtgggt tgtgctactt tgctgaccac catacagacc 120
tttgcccttt catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctacaaata 180
tttacaatag accttctcaa cctcagcagt gaaatcaacc acaacagaac aattatgacc 240
tttccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tgggccagcc 300
ctcagcaaca acagcagtct gtcctttct tccaaaatgc tgctggccca agcagaccat 360
acattccttc accaatccaa caacagcaac aa 392

<210> 4356
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4356

taaaacatac ttagacactt cctgagcatg tacgagcagt tatgcaagtg ggatcagcaa 60
 cttccattat cagagtaatc gagcacagcg gaatctgtag tttagacaag ttgcaagtcg 120
 tttccaggat gtcaagacat ctcacatgac atctgctttc tgcttctgct cccctgtct 180
 ccatgcttac tgcagcatct tctaacagct actagtcttc tccaggatgt caagacatct 240
 cctgtgacat cagctatctg ctccccctgt ctccatgctc ttactgcagc atcttctagt 300
 agctatcatc agtcatcatc agcagcagca gtctccctct canaatcgta tacacacaac 360
 tcccncttca aatcatgaat catgcataca tcgtatccta ctactatggc atacatagta 420
 tctt 424

<210> 4357
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 4357

aatccatata atgtgcacac cactggacat gcccaatagt accatctcca ccacaagggg 60
 atgctgtgtt gaaaatggaa tataacaagt aacataaata aatatacata cattgaaatc 120
 atgcatgtaa tgtgggcgca acaacttaca ggtcttacta caataaatcc tgagaacaga 180
 ttccaaattg cataaaatac agcatccaca atggaaacaa catggtgggtt tgggttcact 240
 cccacaacca tcatgctgta taaggtgaag tacaacaatg tgaagtacat gaaaaataga 300
 taccaaaaga atttctgtac a 321

<210> 4358
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4358

taattgcttc tgctctttaa cagttatccc aagtaccata ttcaggcatt gtaacttgta 60
 tccgcaagtg aattggatgc agattgtgta ttgtgggttaa gtctgtcaac tagtcacagg 120
 tttttattca atcaaataga gctggagtct cttgatgttc atgtaggcca atcctactta 180
 gttcttgtca caacaaacca aaatattgct gattactaca tagtagcctc tcctaaactg 240

agtaatgcca caaataataa cactotttgtt ggtgttgttg tgcttcatta tgacaactct 300
 accacaccgg ctattgggtc tttccaagt ggtccagatc catttgatat gcaattctcc 360
 atcaaccaag aaaaatccat tangtaattg catttcacaa aatgggtgctc tgtatgccaa 420
 agaagagttt ttccaatatt ctttctttgc ttgcttaatg tcaacat 467

<210> 4359
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 4359

tctattgtca gattgagaat gccgctaccc gcacctgtgt ccatgattgt cttcatgcct 60
 cttacgtgct gatgtccaaa tctacgatgc cgtattctga ctttatctta tccttgaaat 120
 tgacctgtgg aggacgtgct ggcttcttga tgtgaccata agatacagtt gttcttcgat 180
 ctgggtgcct tcattaagac tacactctgc tcctttgtca cccaacatac tcaactctggg 240
 aagagtacag tgaatgcttg ataagacaac tgactgatgc t 281

<210> 4360
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 4360

atgataccga gaaagaaaga ctaatttact tcatgaaagg tagaaataga atgctagtga 60
 accggctgac aaacaaacca aattttattg acaatgcgta accatgctct cttccaacta 120
 aatttgcaag agcaccagtg acaaagctct caatgaatga tatagctatt gctagaatta 180
 atgtctcatg tgagagatat gtgacttatg taaggactaa taaataaata attaacgatt 240
 aagggctaaa ttgtaattgg gcttaatagg agaagcttct aggttaactg ctacttgatg 300
 ggagtagtgg ttataaaatg ggcttaatac ccactaacgt gaaataaggt cctcttctg 360
 accagaaagt gttctctctc actcatagcc atcacgaaca gagagagaca 410

<210> 4361
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 4361

tacatgatgc gcctaaacag gacatctcgt ttattgggta tgacaatttg aattgctcta 60
gagattccat tgttcaattt cgagcgtctc gatataattat gaatttgaat ctgaccgtcc 120
gagttcaaag ttatgaccat gtgaatttcc tgagagcttc cgttgttcaa tgtcgagcgt 180
atggatatat gattcgccag agtctgcact ccgagtata agttatgacc atgtgaatct 240
ctccagagat ttcgatgttc aatttcgagc gtctcgatat attatgcg 288

<210> 4362

<211> 341

<212> DNA

<213> Glycine max

<400> 4362

gaatagatcc ttgccctctg atcgtctggca tgagagccgt ggttctggcc atgactctag 60
aaaggagaat aagaggatcat caagatggcg tcctgaagat aaagagaagg attctgcgtc 120
tgagataaga catgatgttg agaacgaaga tggtcacact gaaaaacctt ctctggaggt 180
tggaatcgc atggtgcctg atcgtgacac tgattctcgt gataaatgga ggccgcgaca 240
tctattggaa gctcaagctg ctggtgtggc cacataccga gctgcacctg tatttgggct 300
gcagaaagga cgcaccgaat gctccaatgt gctgatttca c 341

<210> 4363

<211> 420

<212> DNA

<213> Glycine max

<400> 4363

catgcaagct tgtacatatt gcccaatgga taaaaaata aaaaggaatt ttataaaatc 60
tcttaccttt ctatgggata cattcggtga tatgaacaag aactctaagc tttacctttt 120
ccacgagatg aacaaccaa tgaaacatga cagtgaagaa taaaggagga aatatcattt 180
ccatgtggta taaagtgaga acaacttgga tttgtaatta gtctaaattc ttaactttca 240
ataatttaac cacatatattt tttaaagaat gagcataact caattaatac tgttgaaacc 300
tcatctgaca atgtagatca catgggcta ggtagcacat gccataccaa tatgtgacaa 360
ttgtgactct tcaacgttcc agtcaacttt agatcttctg agtcgatata ccaagaaatg 420

<210> 4364
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4364

ngacattatt cagtttagtgg tgtttaagca aatataatga ataagtgaag gaagtataat 60
 tatgtttgcc atcatttcat tatattttcg aattgtgggt gtgtttgtat aattatataa 120
 taatatcatt tgttgtatat ttataaaca cgtgcctttt aagccgacgc ctatgggttg 180
 tttttttatg gatatcatca tattaacttt tcatttttaa gtttgattag ttgtacgatg 240
 tggcatactt ttttaattatt aaaaaagtta gttattttat gagattgatg tagagagcaa 300
 atattttaat cccaggggtg ttattgttgt gaggagaag acatatatca tcttatatat 360
 aaattaatat ttttaatat attaactgtt tacatcatgg ttaattagc acaaataatt 420
 aaaataaaaa tttgaattat aacaactc 448

<210> 4365
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 4365

ctcattgtca tttttgggtt tctgtttatt gctcgtctct ctgtgttctt gtttgtgagt 60
 tgccatatag ggaattggaa aggaggattg gtgccatccc ttgaagaatt tgagtcaaga 120
 agaaagggga aaaccacctt aagagctatt ggactaagaa gcactccaaa ttgagtgaat 180
 cgccaaagag agaacaacct ccaaaattga gaaccttatt gctatttcgt aattgacaat 240
 atacttactt tcattgcttt caaattctgt aacaaacagg cctttcattg gaagtaagat 300
 aagagcctcc aatagatgac cctacttgca tttgtgtgtg ataatgtag gcaattttcc 360
 cttaagattg tgagtgtttt gctgggaacg ttaaagtgg tcttccaaac actctgaaga 420
 tgcacctagc ttacattgtt tgcttacttt catagtt 457

<210> 4366
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4366

agcttttagcc aaactgtaca acttggcaat aataccacaa tggctgttgt gggaaaaggt 60
ataattcgta tgccagtga tggatttatt cacgcaattt ctggtgtcta ttatgttcct 120
gaacttaaaa ataatctatt gagcataggg caacttcaag aaaaaagctt aactattttg 180
attcaacatg ggaagtgtag ggtatatcat tccgagaaag gattaattat gcagtcagat 240
atgagtggaa atagaatggt ttctgtgttg gctaccatga taccaaaagc ttcttcgtgt 300
ttccaaattg tatcagaaaa tgaatctcat ctttggcatt gccggttngg tcacttango 360
tataacggat tgaggacac 379

<210> 4367
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4367

catgcaactt gccgatccaa tttgtgaact gacatttttt atcaaaatta cataattata 60
ataacttaaca gatgataagt aaaattaatc atattttttt catttgtaaa aaattaaact 120
cacatattaa agatnacaat tttcaataca gcgttcaatt aataaagtta aaccggttaa 180
tgataattaa gtgtagatag aatgatttca tatatttatt ctgtcaaaaa gtttttatga 240
atataaaaat ctataacata aggattatgt ttcacacaac ttttttctct ctttaagatgt 300
tttcatactt ttttactact taaaaatgat attacttttt ctattcaaac aaaattaatg 360
aactccagac cactttttta caaacttact ccgacaattt tgttttaatt ataatctatt 420
ataacaataa tatctcatta tacatataat t 451

<210> 4368
<211> 445
<212> DNA
<213> Glycine max

<400> 4368

cgtgtgtttt agcgatactc accacaattg tgtaacatat tctccacatc aagttgatca 60
tgtcctagaa gatccagttg aacaacatca aacacaaaat gttgagcaac tttttgaaca 120

acatcaaaca caagatgttg aacaacctgt tgaacaacaa ccaaaagggtg tggatgtaac 180
 attgagaaga tcaactagaa taaagaaacc tgtaattcct agtgattatc atgtgtattc 240
 acaagagtct caatatgact ttggagttga aaatgatcct gagtcatttt tgcaagcaat 300
 taacagttgc gattctaagc tatggtatga tgctatgaaa gatgaattgg aatctatgg 360
 aaataataaa gtatgggatc ttgtagagtt tcctaattgg ataaagccta ttggatgtaa 420
 atgggttttc aaaaccaaga acgat 445

<210> 4369
 <211> 349
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4369

agacttgatc taccaccacc gtcgccatca tcacttagt tntctattat tcttaatat 60
 actagtactt tgttttctag ccgagtattt ggctatatta tgacatttga acaatttagt 120
 gatgcaatcc tccctaggaa gggaccaatc actagaacca tgagcaagag gcttcaagaa 180
 gattgggcta aagctgctga agaacgcctt acggttctca tgaaccttac gataaatntc 240
 tgagcccatg ggccaatggt ggggtccaatt atctttgtac atattagact acgatgtcat 300
 tatatttggc ccttgtattt agggctccat atcgtagcta gggtagcct 349

<210> 4370
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4370

gacctataaa tctcagcttt attggcagga atgaagaaag acgttcgcaa gtacattcgg 60
 gtttgccaca tttgtcagca aaataaaacc actaccaagc gtccggcgagg gttattacag 120
 ccattaccag tgccggcgagg ggtatgggaa gatatttcca tggatttcgt tactcattta 180
 ccttcattca atggctatac cggttatcat gatgtagttg accgttactc caaggagggtg 240
 cacttcggcg ccttaccac ggtgttttcc gccttcaagg ttgccacgct ctttatcgac 300
 gttgtttgca agcaccatgg atttcccaag agcatcatct ccgacaggga tccagttttc 360

ttgagtgcctt tctggagaga attatttcga ctgagtgga cgcacctncg cctctgcaca 420
acgtaccatc cacaaacgga c 441

<210> 4371
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4371

tagactgagt tcagcctact atcttcagac tgatggccaa actgatcgaa ccattcagtc 60
attggaggac cttttaagag catgtatctt agagcagaag ggaagctggg agagttttct 120
tccattgata gagttcactt ataacaatag ttttcattct accgtcggca tggctcccta 180
tgaagctttg tatggtagaa ggtgtaggac acccctatgt tggtagagc ccggagaagg 240
cctcacctta tgaccgaaag tggtagaaca aaccaccgag aaagttatgt taatccagga 300
aaggatgagg actgctaaga gtangcagaa aagttatcat gataagagga ggaaagatct 360
ggaattcgag gttggtgatc atgtattctt gagagtcact ccatggactg gggttggtcg 420
agcatttgaa atccgaanac tcaca 445

<210> 4372
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4372

ctatcttacc cctacagaag catctaagag ctgcttagat tgtgttctca actcgtaaac 60
gaaaatattc tgctgtatgg gctcagagaa tccatgagta ggagttttcc acagcaagct 120
acagaatctt tctagtgcct cactcaaaga ttcactctggg aattggtgaa aggaagagat 180
ggcagccttt caactgggaa atatttcttc agaaactttt ccacaacttc atcccaagtc 240
ctcaagctat tacctttgaa tgaatgcagc cacctcttgg cttctccaga tagtgagaat 300
gaaaataagc tgagcctaac aacatcttct ggcaactccag caattcttac tgtgttacaa 360
atttcaatgt aagttgctag atgtgcataa ggatcttcat tggngcagcc atgaaattga 420
tttctctga tatgctgaat caaagaatgt ggatattgtga tattctga 468

<210> 4373
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 4373

catgaaaact actcacctcg gtcacagact tacgcgtacg ccattcttga atagacctaa 60
 ccttctcctc atcaacttgc actccttttg aactcacaac aaaaccaaga aacacaacat 120
 ggtagtagta aaagatgcat ttttcaagat tggcatacaa ttgttcttct ctaagcacag 180
 tcaagacaga ttttaaataga tcaatatgca aatcaagtgc agtgctatag ataagaatat 240
 catcaaagta caccacaaca aactgtccta tgaactctct caagatatgg atcattagtc 300
 tcatg 305

<210> 4374
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4374

tgtaatcgat tacgcaaggc ttataatcga ttaccagaag ttttttaaac tttntataac 60
 atcctttaga aatttgaatt taaattttta agcttgcaat caattacaac ttgtgtgtaa 120
 tcgattacca gacatgaaaa ttcaaatttc aaatctgaag agtcacaact cttcagaaac 180
 taactgtgta atcgattaca acaattatgt aatcaattac cagtaaggaa ttttcgaaaa 240
 taactcccaa gagtcacaac tgttcaagaa gtttttgaat ggctatcaaa ggtctataaa 300
 taggtgactt gngacatgaa attttgaaaa agagaatttt cctgaacaaa tngtcttate 360
 ctctcaatac caaattgtct tataactctc aaaaagaatt ccttgggtcaa aacacttgca 420
 aatntaataa ggaatctnga gtgatcttca attngtatat ttttcttctt aa 472

<210> 4375
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4375

agcttggtga tccaggatct tacagacgac tcgttggaag gctttggtac ttaactatat 60
 ctacgtcaga tatatgttat tgtgtgcaca aattaagtca gtttgtcttc aacctctata 120
 cgaaccacat gcatgctact aacatgttac ttcggtacct taagcacact gttattcaag 180
 gtattctttt taaggccaac ttagacacaa aattacatgc atatgtggat gcaaattaag 240
 gatcatgtnc tgaaagtana agatcaacca ctggcttctg tatcttctta ggaaattcct 300
 tggtttctag aaagccaaaa gacaaaagac agtaagtatg tcctcagcag aagcataata 360
 cacgtccttg gcttttgttt ctangtgaaa tactcggatt cgaaattact tactaatttc 420
 aatattagaa ttccttttgt actatcta 448

<210> 4376
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4376

tatgacaatc tgaaattctc gagagcttcc gaatacgtgt gaaaagtatt gaccatttga 60
 atattttgag agattccggtt gttcaatttt gagcgtctcg atatattatg cgcctgaatt 120
 tgacttgccct gtgaaagggtt atgaccattt gaatttctca agagcttccg ttattcaatt 180
 tcgaacttct ctatatgtga tgcgcctaaa tcagacatcc ggggtaaaag ttatgacaat 240
 ttgaatatct canaagcttc ggtagttaa tttcgagcat ctcgatatat tatgcgctg 300
 aatctgacat ccgtgtaaaa agttatgacc attttagttt atcgggagct tccgtttttc 360
 aattntgagc gtctctatat gtgatgcgcc tgaatcggac atccgagtta aatgctatta 420
 ccatttgaat ttctcgagtg cttccg 446

<210> 4377
 <211> 423
 <212> DNA
 <213> Glycine max
 <400> 4377

tcttatccag gcaattcttg gtggtgaaac tccttctttc ttggcttatt ccctagtggg 60
 tggtgccctc cctctcctct tctcctttgc ctcccgctgc atctccatgg tgaaaaatca 120

aatttgaagg accttattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcag aaaccaagaa gaacacacaa aaataaaaaga aaatgcggcg acatcctaaa 240
 ttgccccaga ttctaagcat agtatcgctt gacagcatca gagttcacgg gtaaaggtag 300
 ttectcgcca tccatgttgg taagtaccaa ggctcctccg gtaaaagcct tttttacaac 360
 gaaaggccct ttgtagtctg gggcccactt ccctcgattg tccttgacag catgggacat 420
 ctt 423

<210> 4378
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 4378

tgatgtttgt gttgaatgcc ttaaaggtaa acaggccaaa agcaagaaat taggtgcata 60
 tagagctaca gacgtcttgg aattgatata tacagacatc tgtgggcat ttcatacacc 120
 ttcattggaat ggtcaacagt attttatata atttatagac gattactcta gatatgcata 180
 cttgtttctt atacatgaaa agtcacaatc tctagatatg ttcaaaacat ttaaagttga 240
 agttgaaaac caactcaaca aaagaataaa gtgtgtttga ccatgggtgg gaatactatg 300
 gcagatacga cggttcaggt gaacaacgtc tgggtggcctt tgccaagtac ctagaggaat 360
 gtggaatcgt ccacacaatac accatgc 387

<210> 4379
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 4379

tcattaagag gcttctcca gaagcttcct cgtggcttct ttgagaagct ttctcaagag 60
 gcttctttga gaagctagat ccttatctat ccacaccct ctattaacta aattaacttc 120
 cttaaaaata attacggatg aaaataacgc aacaaatatt caaacatcaa acataattac 180
 taatagtata tagatatata tatatcaggg tggttacaact ctcccaccct tttagaaatt 240
 tegtctcga aatttacctt actcaaacaa ggatgggtga gcttctcaca tctgactttc 300
 taattcccat gtggcatctt ctctgatgc acctcccag atcaccttga ccaacagaat 360

ctctttccct cttaggtggt ttgtttgcct atcctcgatc ctcaaagtca atgtttcata 420
 tgtcaaattc tccttcactt gtacataatc caattcaatc acatggga 468

<210> 4380
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4380

ttggattcat gaactgcana accaagcaaa gtgtgttaca tattaaatgt gtccttatcg 60
 gaactatatg catcaattaa ggtacttttg gcctatatta ccatgtcaat gccagcagaa 120
 actcctgctt caattgaata agtgaagttt gcgtgaggtg gtaaagtgat cctatcaata 180
 ccctcaaaat ctgaaataac aaagccctgg tgtaatcaac gaagaggtaa ggggttatatt 240
 aaaatagtgt tcataggatg ataaacagat tcaatgctat attcgacaaa gtattttacc 300
 ttgaaatgga gagtattctt gaggtagcca gtaataaggt cattgatagc atgcattttt 360
 actccattcc aactggagta agagaccata atggatgcca cacccttgct gattgag 417

<210> 4381
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 4381

agctttgttg gctttaccag aattatatta tataaattaa atttatagtt ttattgacaa 60
 ttaatcatat cttaattttt attctatttc ttataactct ttatttagct tctactatat 120
 atagagagag aggttaattat actagaatga gagttgaata atatgttact cacattatta 180
 aatcttttcc aatgacagat ttttattaaa taaacaagtt tatttaacaa cttttgtcta 240
 gtgactaaga taagttttct taagtacagg tgaattgggtg tccaatgata tataaaaattt 300
 attcttcaat gaacatcttg tgtttagaat gtattaataa taaactttga aataatttaa 360
 taagctaaag agaaatggta aaaatacctc attttatact ggatcaggca atctgagtta 420
 cgttcaattc tgcgccacca actag 445

<210> 4382
 <211> 529

<212> DNA
 <213> Glycine max
 <400> 4382

agcttgacag ctgggaactt atgaggaaat acttatttgg gattcaatcc cctaatagaaa 60
 catctagtaa tttattttatt taacaaaaaat tccgatatct atcccaaata gatcatttta 120
 atcgggtgaa gaacattcat aaaatgatga acttaaattt tcatcattac agtttttact 180
 acacctaataa tttggactta aaatcttatt taaagaaact aatcaccctt ttcgtgttgt 240
 aatattattt aaacaaatct agcatcatat ataactcgaa caagccttat attatttata 300
 acacatcata tatcacatag tttaaataaa ggccaataat tatttttcgtc cctaaatggt 360
 taaagcatta ataaaaattta ttcttgaaag ataaaaattc aaatttttagt tctcaaaagt 420
 gaaaaagtgt aaccaattca tatattcgct aaccttcaat gaaagaaccc tgtatgacat 480
 atccagaaac caacttggtc cccattatac ggccagacaa aatgactat 529

<210> 4383
 <211> 620
 <212> DNA
 <213> Glycine max

<400> 4383

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60
 tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatttt 120
 tggcttcagc aagagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatttgat 240
 ggtgggggca actagcacat agtttcttaa atctctccca gtactcatac aggctctctc 300
 cactgagttg tctaatacct gagatatact tctgatggc tgtggtcctg gaagcaagga 360
 atttttttcc taagaatact ctcttaaggt catcccaact cgtgatggac cttggagcaa 420
 ggtaatacag ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcataaata 480
 tgtgatcctc ttggacatct gggggtttca tgggtggagca gacaatgtga aattctttta 540
 aatgtttgtg cgggtcttca cctgcaaggc catgaacttt ggaagcaaat gaatcagtcc 600
 cattttaaga acatatggga 620

<210> 4384
 <211> 542
 <212> DNA
 <213> Glycine max

<400> 4384

tgccgcatta caccaagttg ctgaagggcc ggttggtgtc taagttgctg agccacataa 60
 cggagacggg gtattccctc ttgctcccca aggcttcttt gtgtcacttg aatgtggcca 120
 ctgatggcat cacgcaaaca ccgaaagtgg ggagaaattg ttcttaaagc aagtgtagga 180
 tatggttctg ctgctccaca cccggcaacc atgtcaaaag atgacaccac aatctgcac 240
 tgatggcagt actggctgga tcttttatct acctataacc agtggaaca aggaatcttt 300
 tatggagtcc gccattggcc gacactatca tgaattcata actaactgct ttttcaatag 360
 ttaaacacac cgttcaaact atgggagcaa caaatgaatt ctacaaacat tatagatata 420
 actgtagagc aatattatgc cctcttaatt aatcgtcatt caaatagaat taagaacgtc 480
 taaactgtgt gaacatccac tatataatta atggctttat ggtggtgcac cagttcaatc 540
 tg 542

<210> 4385
 <211> 564
 <212> DNA
 <213> Glycine max

<400> 4385

agcttgtaat cgattacaca tatactgtaa tcgattacca cagaagattt tcagaaaaat 60
 attctcaaca gtcacatggt tttacttggt tcttgaatgg ccatcaaaag cttatatata 120
 tgtgacttga gacacgaatt tgctaagaga ttttcagaac aaaaaggctt tatcctctta 180
 aaaagcaaaa tcgttttatc ctcttacaaa ttccttggtt aaaacacttg tgattcagta 240
 aggaattatt tgagtgtca aattgttcaa tctatctctt tcaagagaga tttcttcttt 300
 tcttcttctt cattctgaaa agggattaag agaccgaggg tctcttggtg tgaaagaatt 360
 ctaaacacaa aggaagggtt gtccttggtg gtttagaact tgtaaaagga atttacaaga 420
 tagtggaact cttaagccga ttgcttgggg actggacata cgcacaacgg tgtggcccaa 480
 ccagtataaa tctgagtttg cttttctctt tcccttacac ccccttaatt attattgctt 540
 tatattcata ttcaaattgt tcta 564

<210> 4386
 <211> 521
 <212> DNA
 <213> Glycine max

<400> 4386

ttgtagcaga tgccactcta ctctaaattc ttgaaagata tgtagcaag gaagcataaa 60
 tatattcatc aggaaaacat catagtggaa ggaaactgca gtgctgtgat ccaaaagatc 120
 cttccacca agcataaaga tcctgggagt gtaactattc cttgttcaat tagagaagtc 180
 aatgtgggaa aagctcttat tgacctggga actagtatca atttgatgcc actatccatg 240
 tgcagaagat tgggagagtt ggaaataatg cccactcgaa tgacttttca attagttgcc 300
 cgctccatta ccaggccgta tggagtaatt gaagatgtgt tggtcagaat aaaacatttt 360
 atcttcctgg cagactttgt ggtaatggga tatctctgaa gatactgaca tacctgtaat 420
 attgggaagg ccattcatgt tgaccgcaag ctacataatt gatatgggga aaaagaagct 480
 ggagctaagt tttgaagatc agaaaattga atttgatttg t 521

<210> 4387
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 4387

agcttctgtc cctgagaaac tgggtcccag attacaacag ggagtgaaga ttgctgaaaa 60
 ccctagcctt gcaacaagtc ctagggaagt agacacggag atggacaaga aaatccgcag 120
 tattgtgagt agcattttta aagacgcctc tggtcctgaa gctgatgaag atgttccaac 180
 atcttcacc ccgaatgttt ctgtgcctga tggtgagaaa gatgttccaa catcttcagg 240
 cccaaatgct gaagccctcc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300
 agcctcagag gagaccctg caccaagggc accagaatct gctccaggta acctcattga 360
 cttggaagaa gtcgaatctg atgaagaacc cattgccaac aggttggcac ctggcattgc 420
 ggaaagactt caaacagaa agggaaaaac c 451

<210> 4388
 <211> 430

<212> DNA
<213> Glycine max

<400> 4388

tgaagtgacc tattatgatg tgtgtgggcc ttttaaagtg atatccctag gaggtaacag 60
ttactttgtg tcattcattg atgaatttac tagaaaaatg tggatctatc tcattatgca 120
aaaaagtgaa gtgtttaaca tttttaagaa gtttaagtta ttgagtgaaa aacaaagtga 180
taaggtaatc aaagggctta gaacaaatgg aggtggtgag tataactcac atgaatttca 240
agtattttat gatgaagatg ggataattca tgaagtgaca tcttcctata cacctcagca 300
taatggtggt gctgagagaa gaaacataac cattctgaac atagccagga gcatgatgaa 360
agggaaggga atacctcatt acttttgagg agaagcaact tctactgcta tgtatattct 420
gaacaagtgt 430

<210> 4389
<211> 470
<212> DNA
<213> Glycine max

<400> 4389

tgtaaccttt gggtccttga agatgtctta acactttctt tgcaactttc tggggctcca 60
aaacttgccc aaatatgctc accaattcta cttgaagtta ttgatgaact cctcttgat 120
acatataatg gcttgttgt aagtatgtag caaagttgag aggagcacca caagatacgc 180
cactgtttga aatctcatcg ttacatgat cgtaatcaac atcaatgtta ccattgtatg 240
tatcttggtc atcttcaaca atcatgttat gcaatataat gcatgccaat ataatatatt 300
tcattgtatc gatgtgtcaa ttatgcgaag gaccacatgt aattgcaaat caaaatttta 360
acacattaaa tgctctctcc acatcctttc tcgccgaatc ttgatatttt gcaaaaaact 420
ttcctttatt ttctctccct ggggcatggg gatgggtttt acaaagcgac 470

<210> 4390
<211> 429
<212> DNA
<213> Glycine max

<400> 4390

ttgaccaaac cccagcagca atcgatcct tagagacttg cctcagcacc ttgtctccga 60

gactgagaat aattgcactg tgtgccttct gcaatagtgt tttcttattc ccatcagcca 120
 tcatcttttc gagtttgact tctccatcaa gtgcttccac caggccctgt tgaacaagaa 180
 gagctctcat cttcaatcgc catagcccg aatcattatg tctgtgaat ttttcaacct 240
 cataactggc cgagctcatt tcttgaatca aactcaaaaa tcgctccacg ttcaccgcac 300
 caatttggtg tgccaagatc atattttact tcacaaaaga atgagtttct tgtatgaaca 360
 agaacaagca aaatgcatgt taaatacaag ttttgaaatt tacttgaaat tttgaaatca 420
 aagcaattc 429

<210> 4391
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 4391
 tgttgtatct ttcaagttcc aattacaatc tacaatttgt tgcatttatt acatgaaaaa 60
 caagggatta attaactgga agtgagtcaa cacttgacac tcattctgag agagcttatt 120
 agatcttttg aatggtatga cgattatcaa tgttgccctt gctgcaaagt atacagaagc 180
 gtgaagattg aagaatccaa attcatatat tggatggaat atgcacatag tatgtgggga 240
 acggcactag gagggatggt tgctttgcca tattcatacc tccttcataa ggggtatatt 300
 accttgagat tgggactgat ac 322

<210> 4392
 <211> 448
 <212> DNA
 <213> Glycine max

<400> 4392
 ttcacacgga tgtccgattc ggggagataa tatatcgaga cgtctcgaaa ttgaacaacg 60
 gaagctctcg agaaaatcga atggtcataa cttttcacac agatgtccga ttcggggaca 120
 taactcatct agacgctcga aattgcacaa cggaagctct gcagaaattc gaatgtcat 180
 aacatttcac taggatgtgc gattcgggga cataatatat cgagacgctt gaaattgaac 240
 aacggaagct cttgacagat cggaatggtc attacttttc acacgaatgt tcgattctgg 300
 gacataactc atccagacgc tcgaaaatga acaacggaaa ctctcgagaa attcgaatgg 360

gcctaacatt tcaactccgat gttcgattcg gggacataat atatcgagac gctcgaaatt 420
gaacaacggg agctctcgag aaaatcga 448

<210> 4393
<211> 551
<212> DNA
<213> Glycine max

<400> 4393

agcttcttag tttcagatga tgtagatgag tttgtggcta cctcatgcac tcctctaattg 60
gctatagcat catttttggc gctaaactat tgggagttgg aagccatctt ctcaattaaa 120
ttcctggctt cagcaggggt catgtctcca aaggctccac cactggcagc atctatcata 180
cttctctcca tgttactgag tccttcataa aaatattgga gaagaagctg ctcacaaatc 240
tggtggtgag ggcaactggc gcatagtttt ttaaattctt cccaatattc atataggctc 300
tctccactga gttgcctaata gctgaaata tcctttctga tggtcgtggt cctgcaagca 360
gggaaaattt tttctaagaa tactctcttg aggtcattcc agctcgtgat ggaccttgga 420
gcaaggtaat ataacctgtc ctttgccact tcctctaaaa aagacgaaag gccttcaaaa 480
agatgtgatc ttctttgaca tttggagggt tcatggtgga gtagacaata tggaattctt 540
tcacaagttt a 551

<210> 4394
<211> 190
<212> DNA
<213> Glycine max

<400> 4394

attttttacc attttgattg aataaagaaa gcttcctgaa atggcttggt ttgcaaggcc 60
tagcatgacc aagttagtgc cagcttccca atctcccatg ggatctcacc cttgaaattc 120
ttgtttccac ctgcttagaa gacttgagc tttcttaaag agctaattgct ttttgggaatt 180
tcaccactga 190

<210> 4395
<211> 515
<212> DNA
<213> Glycine max

<400> 4395

tatatatcaa agatctgata atttagaagt tgtcggctac tcaaactcgg attttgctgg 60

ttgcgttgac tctcgcatgt caacatctgg atacatcttc atgatggcta tcaaagcaat 120

atcttggaga agtgcaaaac aatcattagt tgctacttac catggaggct gagtttattt 180

cattatttga agcgacatca caaggtattt ggttaaaaag ttcatgggc gatctacaag 240

tgattgatta tgttcctaga ccattaaaga tatattgtga taattcagct gctgtttttt 300

tgactaaaaa aaataaaagt ggaagttgaa gcaaacacgt cgacattaag tatttagtct 360

tgaaggaaca tgtcaaagca aattaaatca tcattgaaaa catcagtatt gaactaatga 420

ttgcacatcc attgacaaaa ggcatgcaaa caaagtcatt taatgatcat gttaagaata 480

tgggacttga ttttgtcata ttaagttccc ttttt 515

<210> 4396

<211> 413

<212> DNA

<213> Glycine max

<400> 4396

tcttgggggtt ggcaggctat tatagaaagt tcattgaggg attttctaaa ttggcattgc 60

ccctaactaa gttgactcgt aagaatgaga agtttgtctg gaatgagaag tgtgatcaaa 120

gtttccaaga gttgaagagg cggttgacga cagctccagt gttaattttg cccgacccta 180

agagaacatt tgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtgttgatgc 240

aagagggaag agtaatggcg tatgcttaac gtcaattacg ttctcatgaa gataactatc 300

cgactcatga cttggaacta ccagcgggtg tctttgcctt aaaaatttgg aagcattatt 360

tgtaaccgac ttgttttgaa actttccgtg atcacaagag tcttaaatac ttg 413

<210> 4397

<211> 503

<212> DNA

<213> Glycine max

<400> 4397

agcttggaca taccattgaa gtttgcata agaaacatgg gtacccgccg ggatacaaag 60

cttttattgg aagatcaagc gtaaataatg tgatagcggg agaggggaag gtcacagatg 120

atcaagaaca acgtcatgaa tcccaagaga ttattagttt ttctccagag cagtgcaaag 180
ccttactcgc tttaatccaa caaccatctg caggaagcac agcttctaac caccacaaaa 240
ccaaacaggt tgcctccata tcttctactg atacagtgc taacccaggt ataccttctt 300
cccttagaac tcaaaaatct acctcctggg tattagactc acgagccaca gatcacgtaa 360
catgtttctt aagtaacctt ctttttttta atcgaatcga acctaatatg ttgaaactcc 420
caaacggcca gcatgtttac gccacccaat ccaggggggg gcatcttttg tcattcataa 480
ctttactaga agttctctat ata 503

<210> 4398
<211> 600
<212> DNA
<213> Glycine max

<400> 4398
tatgctgcaa acatcaacaa tagacctct caacctcagc agcaaaatca gccacaataa 60
aacaattatg acctctccag caacaggtac aatcccgggt ggaggaatca tcccaacctt 120
agatagtcaa atccttcaca acagcagtag caacaacaac aaccttattt tcagaatgct 180
actggtccaa gtagaccata cgttgctcca ccaatccagc atcaacaaca acaacaacaa 240
cagccctaga aatagcaaac agttgaggct cctctacaac cttcccttga agaacttggt 300
agacaaatga ctatgcaaaa catgcagttt caacaagaga ccagagcctc cattcatagc 360
ttaactaatc agatgggaca attgggtaca cagttaaadc aacaacagtc ccagaattct 420
gacagattac cttctcaatc tgtccagaat cccaaaatgt gagtgccatt acattgagat 480
cgggaaagca gtgtcaagga cctcaacctg caacatgttc ctcatccaca aatgaaccta 540
cccaacctca ctctactcca aaaaaagatg atgacaaaaa tttaaagagt aagttaccta 600

<210> 4399
<211> 299
<212> DNA
<213> Glycine max

<400> 4399
agcttctcag atccggtcat ggaaagactt ggcaactgcc ttcattaggc agtaccaata 60
caacacggat atggctcctg atcggagcca acttcagagc atgaccaagt gggaacatga 120

gtccattaaa gaatatgctc aaaggtggag agacctagca gtccaagtcg tccccggtat 180
gactgaaagg gaaatgatca cgattatggg agatacgttg cctacgttct actacgagaa 240
gctgatagga tatatgccgg ctaactttgc aggctcgtc ttcgccggaa aaagaatcc 299

<210> 4400
<211> 410
<212> DNA
<213> Glycine max

<400> 4400

agcttatcta cccacacccc tctattaact aaattaatct ccttgaaaat aattacggat 60
aaaaataaca cagcaaatat aatcaaacat caaacataat tactaataat atatagatat 120
atatcaaggt gttacaactc tcccactctt ttaaaaattt catcctcgaa atttacgtta 180
ctcaaacaag gatggataag cttctcgcat ttgactttct aattcccaca tgacatcatc 240
ttctgatgca cctccccaga tcaccttgac caacagaatc tctttccctc ttaggtgttt 300
tgtttgctgg cataccctaa tttcgtctag ggaccattct ttgatggcat acaacctttg 360
gttgaccgct tagaggtact tggaacccat tgttgcacaa tacgtgaagt 410

<210> 4401
<211> 574
<212> DNA
<213> Glycine max

<400> 4401

tttacgagag agattgacaa gaaaatatta ctagcaactc taggatgagc aaatagacac 60
ctgcagtact aagaaggtaa ttataaatt aatcctcacc ggaatgactg aatagaaacc 120
atttggtatt ggttctgaaa gcactccagt gcgctagaga ttttgatgct ctttttgaga 180
agacaaaaca tctttgtcaa aatgttgagg agactcctta ttacttaaag tctcatccta 240
agaacccaaa taaacaaatc caaatTTTTT caacacaatc tgaaggccac cacgacacat 300
taaatggccc ttgctctgct ggccctgcat cttctcgtgt ctgcttcatg ttcttatata 360
tttggaatga aaaaccatgt cgtcaccatt attaacccat aagagacata tctaggctaa 420
aggattttct taaaatacaa aacctttgaa tatatatttc agtaacgccc actgggttcag 480
ctggaaataa ttgtacctgc ctgaacccaa aaacaaagat tttggatttt taaaaaaaaat 540

aaaacacccc tttaaaaagg gatgaaaatt ttca

574

<210> 4402
<211> 450
<212> DNA
<213> Glycine max

<400> 4402

agctttgaat gctctattca atggagttga cattaatatc ttcagactaa tcaacacttg 60
cacagtggcc aaagatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
taagatgttc agattgcaac tcttggtac aaaattcgaa aatctgaaga tgaaggagga 180
agagtgtatt tatgacttcc acatgaacat tcttgaaatt gccaatgctt gcaactgcctt 240
gggagagagg ataacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaacag 300
atgtgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtgga 360
tgaactcatt ggttcccttc aacctttgaa ctaggactct cggatagggc tgaaaagaag 420
acaagaatct ggcgctcgtg tccaatgatg 450

<210> 4403
<211> 486
<212> DNA
<213> Glycine max

<400> 4403

agcttggtga aaagacacat ttcttcaaac aattttgaaa aggtacaatg gatctagata 60
tatgtgtctg acttcgaaaa acaaaagaga gatgttctaa gaaaacttaa ttgtcaaagt 120
ttctctcaac aactattgga caaacattta caaatctatt gagaattctt ctgagatctt 180
caatttgtat catctactct aaagaaatat ttttgtaaat cttagaaact cagttgtaat 240
caagagacta gttgtctctt ggagaatctt gaacacaagg gtgaggaatc ccaaggtgtg 300
ttcaaagttt gtaaaagatt tacagaaata gtggaaaatc tcaagtgggt tgcttgagga 360
ctgaacgtaa gcacgggcag tggccgaacc aatataaatc aagcttacia ttccctctct 420
ccttatctta tttattttat tgccatcaat tttgtcttac atgggttaaaa gaacattatt 480
aatttg 486

<210> 4404
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4404

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 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggaggata 180
 gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattanaact tcaactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagattac gaagtccatc atggactagc tttcccatc 420
 tagtgatctt tccttttagag ccac 445

<210> 4405
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4405

catctaccgg aggacatct tgacttgctt tccaatctga cattcaccac agaattctgcc 60
 ttgctcaatt ttcagattgg gaatgcctct aacagcacct ttgtcaatga ttggattcat 120
 gcctcttaag agcaaaggtc caaatccttg atgccatatt ttgacttcat attctttgga 180
 tgataaacat gtgaaggaat aactgtgtat ttgacgtgta cctacgaaac agctgccctt 240
 tgatctgctg accttcatta gaactttact cttctcattt gtcaccaagc attctgactc 300
 tgtgaaatta acattgaatt cttcatcaca caactgactg atgctgatca 350

<210> 4406
 <211> 481
 <212> DNA
 <213> Glycine max

<400> 4406

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gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atccaacacg gctcattttg 120
 tttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattgaaga tttcttcacg 180
 atcaagcctt gcctcaccat gaaaggtttc aagccattca aggcacatgt aatcgattac 240
 cactggtttg aaagtgtgta atcgattaca catcatatgt aatcgattac cacagactct 300
 gaacgttggg aattcaaatt ttaaataaaa ggccaccact attcaagaga aacaaccgtg 360
 taatcgatta ccctaactct gcaatctatt accaaagagg attttcaagg aatatcggcc 420
 acagtccecat cttatcattt ggattttgaa tggccccac acgcctatat atatgtgtga 480
 c 481

<210> 4407
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 4407
 tetcaagggtg tatggagact cagctctggt gatacgccag ttgaaaggag aatgggaaaa 60
 tagggattcg aagttgatac cctatcaaac tcacatcttg aggttagcca agtactttga 120
 tgatatttcc ttccaccaca tacctcgga agagaatcaa atggctgatg cattagccac 180
 cctgacatcc atgtttcaac ttgccccaca cggggatctg ccgtacatcg aattcaaadc 240
 tcaaggcagg ccggcatatt gttatgcaat agaggaagag cgggatggga aaccgtggta 300
 tttcgacatc aagcagtata tcgagaataa agaataccca ccagggattt cggacaatga 360
 caaaaggacg ttgaagagat tgggctactg ttttctttgt aagtgttact atcctttaca 420
 aacgaaac 428

<210> 4408
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4408
 cagctattag ncgaattttc cccatttata tagccgaccc cgccattgga agaaaatata 60
 tgatggtgcg cttcaattaa tttatcacag gtacgtcatc ttgtccaaac tgtgccgctt 120
 ttcttgtgaa acacgagtgc tcatccacat tgcacaggtt cacctggaag attcattccc 180

aaaggcttat gactttggcg ggagtttata gaccctggaa atacgtttcc aaattaaaga 240
 ggcgtgagcc tcgacgatat cttgagatgc tctatattcc caaggtccgc gatttgttga 300
 gtcacatgac atttg 315

<210> 4409
 <211> 486
 <212> DNA
 <213> Glycine max

<400> 4409

agcttgtgct ttaacctgcc tcagtaatat aatatggcat gtgttaaggc acctgctaca 60
 ataaactagc tgtgcgtgtg tgcaagtctg aaggtgaatg ttctatgttt caactctttt 120
 ctccttattg ttattgtctt aatacggcta gaatagaaaa agtttttga agtaaattaa 180
 ggattagctc acctttgctg atttgaatag ttcattcaaga acctcggaca aagttggatg 240
 tgcattgaacg gcaaatttta tgccttgcac tgtaccacaa aacggtgaaa ttaccacaaac 300
 aggcaggata aataacagtg aaagactttg agaccattat taataactaa atgccaggtg 360
 cacacataaa tgtggtagaa aaacttacct gaatatgtgt ccctaattgct attgcattgg 420
 atgcttcatg gatgagatct gctgcatgca aacaaaaaat atgaactcct agtatctctc 480
 cattgt 486

<210> 4410
 <211> 508
 <212> DNA
 <213> Glycine max

<400> 4410

tcgatattctt gacttgagcg ccaatatatt tcttggagaa ggcattgtcaa ttccttcttt 60
 cctcgggaca atgacttcct tgactcacct cgacctctct ggtactggat tcatggggaa 120
 gattccatct cagatttga atctctccaa tttggtgtat cttcgcctga cgtatgccgc 180
 caatggaaca attccatctc agatttggaa tctctccaat ttggtgtatc ttggccttgg 240
 aggtgattct gttgtcgaac ctctgtttgc tgaaaatgta gaatggctat caagtattgt 300
 gaagcttgaa tatcttcatt tgagttatgc aaacctatcc aaagcatttc attggctaca 360
 cactctccaa tctcttcctt ctttgaccca cctatctttg tcagaatgca cactccctca 420

ctataatgaa ccataacttgc tgcacttctc atctctgcaa actctccatc ttttcgtact 480
agctattccc cttgcctttt ttttgtcc 508

<210> 4411
<211> 483
<212> DNA
<213> Glycine max

<400> 4411

agcttgtaag atttgcaaga tcactcttct tgacaacttc gcgaaaaaga ttgccgtcaa 60
tatgaagaga taacaattta gagagtgatc caagactttc aaatggattt ccactgaatt 120
tattcataga gagatcgaga tatcttaatg atgaaagttt tccaaatgat ctaggaagag 180
catcaccaat tgagttgttg gaaaaaagta acgtgtcaat atttttaaat gccccaatat 240
gatctgtcag attgcctgaa agtcgtgaac tctgaactgc aagtgttggt agtccatggg 300
aaatacaagg agcacgaatt tctaaaagtt cattaacctg ttggttgaat ttgagatatg 360
ataaatctat cacccttaag ttgcagagat taccacaga agttggaatg tttcctttca 420
gttgactata tgaacaatga agtccacaag agaagtcaaa tacccaaaga agttggaatg 480
ttt 483

<210> 4412
<211> 467
<212> DNA
<213> Glycine max

<400> 4412

agcttaacaa cctgcctaca tattgaagca gttttccttt cactgtcacg gcccttggca 60
ataatcctgt caaaaagttc accaccagca cacagctcca taaccacatg aactgattgg 120
ttatcctaaa aagcacctaa aattaaggct gttcatgaa gttattaaa cttttgaaca 180
tacttcaacg gtaagtgcgg ctgtgagtat acatggcaat gaggtatggc atgaacgggt 240
attgtctccc caatccccga ctccgacttc ccaacatctt cccatacccg taccggatac 300
ctgacgggtt aaaatttatt atcccatctc ccgacttggt gggattacg tattcctcca 360
cccctgtgcc ggactaaatt caaattagaa aaatatTTTT tggtaagaa aatattaaaa 420
atttgatttt acaaaaaata aaccgaatgt taaacattta tttttaa 467

<210> 4413
 <211> 528
 <212> DNA
 <213> Glycine max

<400> 4413

ttagcaactc tttctttttg tttagtcaag acttctaagt ctcttaattct ctctctgcct 60
 aaatcaacta actcatctga catcattttc caataatggt cgatcggaat gtccatttgt 120
 ttttgtactc tagctgattg caaatgtatt tcgaccggaa gtatagcatc gggcccataa 180
 gtcagtcgaa atggggtagt attagtcgat tccttaggag aatttctaca tgcccataga 240
 acttgatcta acgtttttatt ccaattttctt ggcttttggg caatgtgttt tttaatcaag 300
 ttaattacaa tcttattggc tgcttcgacc tgaccatttg cttgcgcgta atatggtgtt 360
 gaggttaata atcgaaagcc agttttttgg gcaaattctt tcatttttcg tccagtaaaa 420
 actgaacctt gatcagtggg aattggttcg tggttaccaa acctataaat aatataattt 480
 tgaatgaaac taattactgc tttctgatca accattggga aaggggact 528

<210> 4414
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4414

agcttatacg gatgctgact atgtangatc aataactgat aggagatcca cttccgaata 60
 ttgtaccttt ctaggaagaa acttggtaac ttggagaagt aaaaaacaag atgttgtagc 120
 gtgatctagt gttgaagctg aatttcgggc tacgacacaa ggtatttttg aattgctttg 180
 gctaaatatc atcttatatg acttgaagat taaataagag gcacatatga agctttattg 240
 tgataataag tcagcaatca gcatagccta taatcttgta caacatgatc gaacaaaaca 300
 cattgaagtg gatagacatt ttatcaagga aaagttggat agtggtttga tttgtacacc 360
 ttccgaaggt caacttgcgg atattctcac taaaggattg cacactccaa attttgatag 420
 aacaatatga aagcaaggac tggataacat ctatcctcca ccttgagggg gagcgttga 480
 tagatgagca tttattgatg attttctttt ca 512

<210> 4415
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 4415

tcgctttatc tggtacgacg tegtgttat attgggcca cccctttgca agtggagcgt 60
 ccgaagtga tacgggcccc actatacatt gcctgaaatg cgctgctttt acattattaa 120
 aaatctatgg aaaagctgtc atgctggatc atttgtatta tggaccagaa aagaataatt 180
 gaaaagtttt cttattatgg agcaaaaaaa tctctaataa tgatttttta aataaaatca 240
 taattatttc acttaatggt gtcttatcta atgttcaacta tgtaaga 287

<210> 4416
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 4416

tatagttatt ggaggagaa taaaataatc caaaatcaat tgtacccttc aagtaacgaa 60
 gaattctttt tgcggctttt agatgaggag aggtaggagc ctccgtaaag ctacacacaa 120
 ctcccaccgc atatagaata tcgggccttg tattgattag ataccttaa ctcccacaa 180
 gaatcttgaa gatcgtggag tctaccttct ctcttcatc aaactttgat aacttcaagc 240
 caccttccat aggtgtgttc acgggattgc aatcaagcat attaaatttc ttcaacactt 300
 cttttgtgta gcttccttgt gagacaaaga taccatttct cgttttgctt cacttccatt 360
 cccaagtaat atgacatgag tcccatatct gtcatatcaa attcatgaga tatggactcc 420
 tcgaagtctt taaacaaatt tggg 444

<210> 4417
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4417

tcacatatag agacgctcga aattgaacaa cggaagctct cgagaaattc aaatggtcac 60
 aacttgtcac ttcgaggtcc gattcaggcg cataatatat cgagacgctc gtaattgaac 120

aacagaagct gtcgagaaat tcaaattggac atcagctttc actcgggaagt ccgattcagg 180
 cgcatcacat atagagacac tcgaaattga acagcggaag ctctcgagat attcaaattg 240
 tcataacttt taactcngag gtccgagtca ggcacacaat atatcgagac gcccgaatt 300
 gaacaacgga agctcttgag aaatcaaact gtcattactt ttact 345

<210> 4418
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4418

agcttaaagg agaagttggt tttctgaact ctaaactgga aaacatgaca aaatcaataa 60
 agatgctgaa taaaagctca gatatgcttg atgaggtgct acagcttgng aagaatgttg 120
 gaaaccagag aggacttggg tttaatcata aacctgctgg cagaataacc atgacagaat 180
 ttgttcttgc caaaaacagc actggagcca cgatgtcaca acatcgggtct cgacatcatg 240
 gaacgcagca gaaaaagagt aaaagaaaga agtggaggtg tcactactgt ggcaagtatg 300
 gtcacataaa gcccttttgc tatcatctac atggccatcc acatcatgga actcanagta 360
 gcagcagcag aaggaagatg atgtgggttc caaaacacaa gattgtcagt cttgttggtc 420
 atacttcact tagagcatca 440

<210> 4419
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4419

agcttgctcg tcttgctgat atttatcatg tagacctttc tgatgatgac cgaggaacaa 60
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300
 tgtggttcaa tgacgtgatg gtatgttgca ccgagcggga gatattcaag tcactccgca 360

nagaagtctc ggaaaggaca cttgcctcgt aattntatctt aaccgcgtat tgtaagatta 420
tgtttatctc ttttatnta aactata 447

<210> 4420
<211> 389
<212> DNA
<213> Glycine max

<400> 4420

tgaagcttgg agggaatatt tgttctatct tacataacaa cacatgtatg ttattgtcca 60
taattcttag atgctcaaca tttaaagggtg tcgaagttag ctctctacaa aattggctaa 120
gttcaacaag tggcttccaa atagatcttg gtaatgagtc aaatgcaatt ggaagcaacc 180
ggtgcatgaa aacatgacaa tcatgacttt tcattccatg aatttttccc ttgttaagat 240
ccacacatcg acctaaattg gaggcatagc catctggtaa ctttagttct ttgacctatt 300
taagaacagc gagtctttgg gatctgggtca ttgcataagc tgcctttggt ttacagaact 360
cttcacgaac aacatctacc agctcaagc 389

<210> 4421
<211> 432
<212> DNA
<213> Glycine max

<400> 4421

agcttgaaga gcttcttgag tcttattctg ttatgaagaa tatgactgaa gctatagaaa 60
tgtcgaagaa ctgtatacag gtgttgagc tttgtgtcaa gtgtaacgat cacatttctg 120
aaggccagtt ttattctgca ttgaaaactt tggatttagt tgaggaaagt tgcacacaga 180
atattcctgc aaaggctatc aaaatgggtca tagagagtag aattcctgct ataaaattgc 240
acgttgagaa gaaagtatgc actgaagtta atgaatggat ggttgagata atgagttctg 300
ctaaaaatat tgggcacacg gcaattggcc gtgctgtgac agttcgtcca agggacaagg 360
aatgctaga acagcagagg aatgccgagg agcatagtat ttcaggacta tgcgatctag 420
cttatacttt gg 432

<210> 4422
<211> 309

<212> DNA
<213> Glycine max

<400> 4422

ctggatgcgt tgggtcaactt ggtaacccag ctggccttga atcagaaatc tgtacctgtc 60
gcaaggggtt gtggtttgtg ctctctgtct gaccaccata cagacctttg cccttccatg 120
cagcaaccta gagcaattga gcagcctgaa gcttatgcag caaatatata caatagacct 180
cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc cagcaacaga 240
tacaaccctg gatggaggaa ttaccctaac ctcatatggt ccagccctca gcaacaacaa 300
caacagcct 309

<210> 4423

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4423

agcttctagt ctcaatttta gcgtctcgat atattacca attcaatcgg acatccgagt 60
aaaaagttat tgtcgtttga atttcctacg agcttctggt ttcaatttgg agcgtctcga 120
tatattaaag gactcaaccg gacatccatg tataaagcta ttgccaatat aattttctta 180
gagcttcgga tcaaaatttt gagcgtctcg atatattacg ggactcaatc agacatccga 240
gcaaaaagtt attgtcgctt gaatttgata cgagcttcta ttttcaattt ggagaatctt 300
ctcataaatt acaacactct gtccggcatn cgagtaaaaa gctattgtcg cttgaattct 360
ctaagagttt ccgcctcaat ctggagcgct ccatatatta cgggactaca ccgacatccg 420
tgtat 425

<210> 4424

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4424

agctntcttt tggatcatgga taatcctgat gaggtcaact tgtggtggct ggttggttga 60
agttctcaat ctcataaagt agggaaacat agtctcttac aatgcatctt tgcacttggg 120

gcaatgatgc agctagtgc gttctaaccg aaaagcgtct attggttggt gaaaactatt 180
 tccaaacccc gtcttacgct taggttcacc ctatgccttt gagaatttct ggaagggctt 240
 cctcaagggc aaagccttac gagccttaca aactatttcc aaacccccctc ttaattaagt 300
 ttgcaagact tactcctatg gtaagtgaat atcctatata tctatgtcat cctaaactat 360
 ctattagctc ttaagaagga gattacggta aaaaaagac tttcattctg gttacc 416

<210> 4425
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4425

ctcagctata atatatcgat acgctcgaat taaacattgg anactctcga gaagatcaga 60
 tgatcatgac ttttcacacg gatgtccgat tcgggcgcat aatatgtcga gaggctcgaa 120
 attgaagaac ggaagctctt gagatattca aatggtcata acttttcaca cgaatgtacg 180
 attcgatccc ataatatgcc gagaggctcg aatttgaaca acagaatctc ttgagaaatc 240
 caaatggtca taacatttaa ctcgaatgtc caatttaggc gcatcacata tagtgatatt 300
 cgaaagtga caacggaagc tctcgtcaaa ttcacatggt cataactttt cacactg 357

<210> 4426
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4426

agcttgaatc ggacatccgt gtganaagtt atgtccattt gtatttctca agagcttccg 60
 tagttcaatc tcgagcttct cgacatatta tgcgcgcgaa taagacatcc gtgtgaagag 120
 ttatgaccat ttgaatatct cgagtgtctc cgatgtttta tttcgagtgt atcgatatat 180
 tttaaacctg aatcggaact cagtgtgaaa agttatgact atttgcattt cgcgagagtt 240
 tccgatgttt tatttcgagc gtatcgatat attataagcc tgaattggac atccgtgtga 300
 aaagctatga ccatttgaat ttctcaggag cttctgttgc tcaatcttga gcgtctggat 360
 atgtgatttg tctgaatc 378

<210> 4427
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 4427

atgcataatg ctcattttgc ttactgcagc tgggttattt caattcccat atcgcatcat 60
 atttgctggt gccactttga aatcattgga catttatgac actgagagca cctctccgat 120
 agctgtatta gctggccttc actatgcccg aataacagat attaccgtgg aaattataga 180
 tgctagcaat tccttttctg gtttgagaat taagatgaat atttacggaa aggggttaact 240
 ctaactgtta cttgctcata aggtcatgtg atgctcatta tttggcatta gcctcacaag 300
 atggtatct 309

<210> 4428
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4428

tggcattgcc cctaactaag ttgactcgta agaatgagaa gtttgtttgg aatgagaagt 60
 gtgatcaaag cttccaagaa ttgaagaggc ggctgacaac agctccagtg ttaattttgc 120
 ccgaccctaa gagaccattt gaagtgtatt gcgatgcaag cgggcaatgc ttgggggtgtg 180
 tgttgatgaa agaggggaaga gtantggctt atgcttcacg tcaattacgt cctcgtgaag 240
 ttaactatcc gacccatgac ttggaactat cagcagtggg ctctgctcta tagaattgga 300
 gacattactt atacggtact cgttttgaag tttcagtgat ca 342

<210> 4429
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4429

acatctagat ctaagtggag attctcttcg tggagatata ccttctgaag tagggaagct 60
 tacaagctta cgacacttag agatctaata ttcacttctt ttcgtggaga aatccattct 120

aacgtangga tgcttacaag cttgcaacat ctagatctga gtggaaattc tcttcttgga 180
gaaatccctt ctgaagtagg gaagcttaca gccttacgat atctagatct aagttataat 240
gtggctattc atggagagat cccttatcac tttaacaacc tctcacaact gcaatatcta 300
tgtcttgga aacataatct ntccggacca atacctgtc cggttgga atcttctatc 360
tgtcactc ttagacttga aggcaatctt gatcttaaaa ttaac 405

<210> 4430
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4430

aagctattat gtactcttgt catagcaaca attctacttt caaccaagt cttatgacat 60
gaactctgat ngggattagt ttttttattg aatgagtgtc taattaagtt acttaccag 120
attgcattct gaatgaaaca tggattaatg cttcttcatt ttcattgattt ggtttctaaa 180
tagttaacaa tggttcaaat tcctctgttt tggcaggtgc tgtctgcatg ctttaccgta 240
tgcacccttg gttatgcagc agcaggtgtt ttgggctact taatgtttgg acaggagggt 300
gaatcacaag tgactttgaa cctcccaaca ggcaagttca gttcacatgt ggcaatattc 360
actaccttgg tcaatcctat aaccaaatat gcattgatgc ttactccagt cataaatgct 420

<210> 4431
<211> 441
<212> DNA
<213> Glycine max

<400> 4431

agcttttgcg caagaatcag ttcgtccaat ggaacgacga ctgctaagt gcgttcggaa 60
ggatcaaagc atgccttatg aatcctcttg tgcttggtgc accagtgcct agaagatccc 120
tcattctata catgactgtg ttggatgagc cgatgggatg tatgctgggg cagtatgacg 180
agtctgggaa gaaggagcgg gtcgtctatt acataagcaa gaagttcaca gcatgtgaaa 240
tgaactactc tttgcttgaa agaacatgtt gcaccttggg atgggcagcc caccgcctaa 300
gccaatatcat gttgtggtac accacttggc tggcatccaa gatggacca gtcaagtata 360

tttttgaaaa gccctctttc atcggacgga ttgctcgggtg gtaggttcta ctgtcagagt 420
tcgacattgt ttatgtcact c 441

<210> 4432
<211> 322
<212> DNA
<213> Glycine max

<400> 4432

tagcacctag aacccacacg ctccatcgac tagcctgtcg atgctgggca aagggcattt 60
ggggcacgcc ctgttcaa at cagtatagtt ggtgcacatt caccatttgt ccgtggcctt 120
ttttactgtg atgatgctgg ccagccaggt ggagtatctg acttctctga tgatgttggc 180
atggagaagt ttgtccactt cttctttgac aactatgtgt cggctcttctc ccattcttct 240
tttcttttgt gatattgatt tagcctgggg acacatggga agcttgtggc atataatgtt 300
ggggtggatt cccgacatgt ca 322

<210> 4433
<211> 141
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4433

ctctgacttt gtatgtggaa agcatatact ggcttgggcc ttagaggaaa tgaaaatngc 60
attttgattg gttttggatg atcaatgcat tttcttttat ttagttactc tgaacacact 120
tttaacactg ngctgtatat a 141

<210> 4434
<211> 235
<212> DNA
<213> Glycine max

<400> 4434

ccaaactttt ctcttaatta aaaatgtatc ttacttttta ctcaaggtat gaattccctt 60
aatgacaaac ttcttgaaca ttaattccaa tgaagcaact tgaattatga atgttaagca 120
ctattcaata aacgagagtt atggaagaga taatgcaaac tcagttgtat actggttcgg 180
ccacaccctt gtgcctacgt acagtcctca agcgaaccgc ttgagagatc cacta 235

<210> 4435
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 4435

agcttcatca ccttctcggtt acccttcagg atcttttgtc caatgaaacc cttctgggttc 60
 accattttct ttcggttggtc caattcaggc atagttctga gcttttccac caccctttgg 120
 actccccaat gggatggcca aacctctggc tcaggatcat tgtggccata aactatagca 180
 cacgcttcaa tgccacagag ggtgctgagt tcctcaacct tcttcagcat ccccttcttc 240
 cttttcttgt atgttgccct ccttgcagca tcattcccta tgaatgcgag ttccaccttt 300
 tttctagtca tgacggtgac cagaaaaaat ggagagaaac taaaagaâââ ttgaaaagag 360
 tgataattgt ggtgggttttc tattgccacc aacaatctct ttatatggaa caatttgata 420
 tgcgtttgac tttcctgtaa gcctttgggtg atagt 455

<210> 4436
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4436

agcttcccag atccgatcat gtaaggactt ggcaactgcc ttcattaggc agtaccagta 60
 caatacggac atgggtccca atcggaacca acttcagggt atgactaaac gagagcatga 120
 gtccattaag gaatatgccc agagatggag agatctcgca gcccaagtcg taccgcccac 180
 gacggaaagg gagatgatca caattatggt agatacgtta cccacgttct actgtgaaaa 240
 gctgataggc tacatgccag ctaactttgc agatctcgtc ttcgccggag aaaggattga 300
 atccgggcta cgaaaaggca agtttgaata tgcttccaat atggcccccââ acaacaacag 360
 aagagcctta tcagtgggag cgaggaanaa ggaaggagac gccacgcgag tcaccaccgc 420
 cccaacatgg atgaaagcac cct 443

<210> 4437
 <211> 422
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4437

agcttctata gaaggttcgt tcctaatttc tctacaattg catcaactct caatgagcta 60
gtgaagaaga atgtggcatt tacctgnggt gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactaaggc acatgttcta gctcttcctg acttttctaa aacttttgag 180
ctagaatgtg atgcctctgg agtgggagtt ggagctgttt tgttgcaagg tgggcaccct 240
attgcttatt ttagtgaaaa acttcatggt gccaccctta actacccac ctatgataaa 300
gagctttatg ccttaataag agcactccga acttggaac attatcttgt ttccaaggaa 360
tttgtcattc atagtgatca tcaatcactt aagttcatta gagggcaaag caagttaaac 420
aa 422

<210> 4438

<211> 438

<212> DNA

<213> Glycine max

<400> 4438

caagcttgta acccatggaa gcttctatat ctccacactt tttgggggtg gccattcttg 60
gatggccttg attttctcag ggtccacttg gaccccatth ctaccaacta caaaacctaa 120
gaaaactata ttatctacac aaaaggtaga cttctctata tttgcataga ggggtgtttt 180
cctaaggact gaaacaactt gtgtgagatg tctaagtga tcatctagcc tcctactata 240
cactaaaata tcatcaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
atgcataagc ctcatagagg tgcttggtgc attactgaga ccaaaggca tcaactagcca 360
ttcatacaaa ccagacttgg tcttgaaagc acgtttccac tcatcaccct tcttcatect 420
gatttggtga taaccact 438

<210> 4439

<211> 276

<212> DNA

<213> Glycine max

<400> 4439

actcggatgt cttgattgag tccgtaatat atcgagacgc tctaaattga atggtgaagc 60

tctgacaaaa ttcaaacgac gataaatttt tactcggatg tctgattgag tcccgttaata 120
 tatcgagact ctcgaaattg aatgttgaag ctctcagcca aatcaaacga caataactct 180
 ttactcggat gtctgattga gtcccgtaat acatcgagac gctcgaaatt gaatgttgaa 240
 gctctcagca tattcaaacg accataacat ttact 276

<210> 4440
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4440

agcttcaaca ttcaatntcg agggctctga tatattacgg gactcaatct gacatccgag 60
 aaaaaagtta ttgtcatttg tatttgctca cagcatcaac attcaatttc gagcgtgtcc 120
 atatattacg ggactcaatc ggacatccca gtaaaacagt attgtcgctt gaatttgctc 180
 agagcttccg tattcatatt ccagcgtctc gatattattac aggacttaat cagacatccg 240
 agtaaaaagg tattgtcgct tgaattcgct ca 272

<210> 4441
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4441

agcttcaaga agccgtggat tntgtgatca tatcccgctt ctatgaaagg atggctggtc 60
 tcattgctgt gtccaacgct ggggaagtgg cttatggttt caattgcaat ggcattgtta 120
 agggctgtgc cactgaaaat ggcttcatgg aggtcggaat ctgggaatag ctccattatt 180
 ttcttcatg gctgtttcga tgcaactttt ggatttctgt accatgttcc actgtagtgt 240
 acggctcttc tgctgggtgcc cgatttagat aaaaaatggg aaccttggtt ctaagaatta 300
 caaaaaaatg cgaaacaata atatggtaac ttgggtgctt tctcaaaata aagacttggt 360
 gtagacctat caaaccctg tcttttttac tatacttact taacttcttc tcttntcttc 420
 aatttatata 430

<210> 4442
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4442

agcttaacaa aatttcacca ctgctaggta attattttca acagacgttt gacacgtgac 60
 cgtcaacggc tgagtttaaat ggtcaatgtc taattgaggc ttcagggatc aacattgcag 120
 aattttacaa aatataagga ttcaatttgt aaattaaatt agcggaggat caaatgcgaa 180
 attggaccta aagtggggga ccaaaagttc aattttgcct aaaaaataat tgtgtatgac 240
 ttaaaaaaat taatttaaaa atcaacaaac tcttattata atntgtaatt tgatgttatt 300
 acatatacta atatacatc atattttatt atgaaatatt tattaaaaac aattaaataa 360
 atagtatttg attaaacaga cataataata attctcttat ccgtttagag taaaatttct 420
 ttttctttct ttccctgtga tg 442

<210> 4443
 <211> 235
 <212> DNA
 <213> Glycine max

<400> 4443

cgcataatat atcgagacgc tcgtaaata acaacggaag ctatcgagaa attcaaatgg 60
 acaatacttc taactcggag ggcctattaa ggcgcataat atatctagac gctcaacatc 120
 ttacaacgga agctctttgg ctatacaaact ggtcataact tctcactcga aggtccgatt 180
 aaggcgcata atatatcgag acgctcggaa ctgaacaatg gaagctcttg agcaa 235

<210> 4444
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 4444

agcttgtacg gctaaagtct cacgattgtc acgtgctcat gcaacaattg tgagccaggg 60
 ctatacgaga catcatgcca cacaaagtca ggttcatgat aactcgcttg tgctttttct 120
 tccatgctat atgtagcaaa gagattgac cactaatgct tgatgagtcg gaaaatgagg 180

ccgcaattat actgtgccag ctggagatgt attttcccc tgctttcttt gacatcatga 240
 ttcacttgat tgtgcatatg gtcagagaaa tcaaatgatg tggctcctgtt tatatacggt 300
 ggatgtcccc ggctgatcga tacatgaaga tcttataagg gtatacaaag aatctatatc 360
 atccggaagc atctattggg gagaggtaca ttgcacaaga agccattgaa tttt 414

<210> 4445
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 4445

agcttgtaac aagctcaaaa gttgctcaac gatcatagcc tacaggtctt ttgtttcttc 60
 gatgatggcg acaatatatt taaatttttag atctaacgat ctaagaattt tctccataat 120
 gtttacatca tcaagctttt caccacttct cttaagatga ttggtgattg ctaagactct 180
 agagaaatag tcggagatga ctttaccttc tctcatatgc aaggtttgaa acttaactct 240
 tacactatga agacgtacct tcttgatcgg atctgctccc ttatacgagg tttgaagctt 300
 ctgccatgct tctttcaccg actttgcttc tgaaaccttc ttgaaagcat catcatctac 360
 tcctagatag attagataga gagccttctt gtctctctct cttgagtctc taaactatct 420
 ctttgagtct gagaaagact accctcattc t 451

<210> 4446
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 4446

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120
 tttcacattg tctactccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240
 aggtccatca cgagctggga tgaccttaag agagtattct tagaaaattt tttccctgct 300
 ttcaggacca cagccatcag gaaggatatc tcaggtatta gacaactcag tggagagagc 360
 ctgtatgagt actgagagag atctaagata ctatgtgcca 400

<210> 4447
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 4447

tgtgtggatg atttcttcag atttacctgg gtcaactcta ttatagagaa atcacacacc 60
 tttgcagtat tcaaggagtt gagtctgaga ctctcaagag aataagactg tgtcatcaag 120
 agaatcacga gtgaccatgg cagagagttt gaatatagca agtgtactga attctgcaca 180
 tctgaaggca tcactcatga gttctctgca gccattacac caciaa 225

<210> 4448
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 4448

agcttctaga aaacgttgat gtcaaagca ttctattttt cttccatggt tcagttgcac 60
 gtagcttggtg tcttcttaac aaatagggca tgcgcgatgg cccttaacac aatatccacc 120
 caaatttttg tatgctggaa agtcattaat ggtacaaaat aacattacac acaacttgaa 180
 tgtctcattt caatacccat caaacacaat aaccccttg ttctacaact ttgtcaagtc 240
 ttcaatcaag ggactgagat aaacatcaat gccatttctt ggctgtcctg tgttcgatat 300
 catcatagac aacatcatgc attttcgctc catgcacaat caaagaggca agttgtaaat 360
 tactagcaaa acagaccacg cactatgtcg agtgcttaaa ttgccataaa gatgcattcc 420
 atcctt 426

<210> 4449
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4449

tgtganagag aagggcattt cacagctatg gattgagact gattctactt cagcagtggg 60
 ttatatattta aataaacgcy tgcagaaaagg tgatccttct gtcctcttg ttgagtccat 120
 actcgagttg atgataggaa attggacgtt tcgagtatcc cattgttatc gtgaagcaaa 180

cacagttgct gactggttgt ctaaatatgc gcatactact gcttttggtc ttcattgtgt 240
 cgatgttcct cctcatgggt gtataacata cttaactgat gactctactg gagtttatag 300
 acttcgtact gtacgtgtta ttgactcatg 330

<210> 4450
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 4450

agcttgtaga tgtcacttaa gaacatacgt gcaacggaag caacggagaa cttggctggt 60
 catgttttga agtgagtata ctctgtcaaa caatctacaa tcacctaggt aattgacttc 120
 ccctgtgaca ctggttaagt tgtaataaaa tccatacaga agtctttcca gacctaattg 180
 ggaataggtc aaggctataa aaggccatgc tatttgatg tgggagactt atgctcttga 240
 caaatctcac aggtttgcac atactccttg acatcccgac acatgtgtgg ccatgaaaag 300
 gaagctgcca aacatataag catgccttta acacttgagt gtcctcctgc aagggtggca 360
 tggcaatctt gaagcaactg aaagcaaagc gcagactcta gtggaacaca taagcact 418

<210> 4451
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4451

agcttgtaga tccaataccc tgatgaggat gtcccatatg ttcttaaaat tggactaatt 60
 catttgcttc caaagtttca tggccttgaa ggtgaagacc cgcacacaca tttgaaggaa 120
 tttcatattg tctgtccac catgaaaccc ccagatgtcc aggaggatca catatttctg 180
 aaggcttttc ctcatcttt ggagggagtg gcaaaagact gactgtatta cttgtctcca 240
 aggtccatca cgagctggga tgaccttaag agagtattct tagaaaaaaa tttccctgct 300
 tccaggacca cagccatcag gaaagatatc tcacgtatta gacaactcag tggagagagt 360
 ctgtatgagt actacgagcg acttaaaaaa ttatgtgcca gctgccctca ccatcagatt 420
 tcggagcage ttcttctnca atatctttat gaatg 455

<210> 4452
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4452

gacagtcatt caaaatgaaa agaatgacct aacccccaca atgattggca ctggctggag 60
 aatgtgcac gattatcgca agctcaatga agccatatgg aaagatcatt ttcctttacc 120
 attcatggac caaatgttgg agaggcttgc gggacangct tattactgct tcttagatga 180
 atactctggg tacaatcag 199

<210> 4453
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 4453

actagacatt ctcttaaaga tttatgccat aatatggcat ttgtgtctat gattgaacct 60
 acaaatataa atgaagccat aatggatgat cattggatag ttgctatgta agaagaacta 120
 aatcagtttg agagaaataa tgtgtgggaa ctagttgaga aacctgaaaa ctaccccatc 180
 ataggaacaa aatgggtatc taggaataag ttagatgaac atggaataat ca 232

<210> 4454
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4454

agcttcttag tanattgtgg ggagtttgaa gccatcttct caattaaatt tctggcttca 60
 tcaggagtca tgtctccaag ggtccacca ctggcagcat ctatcatact tctctccatg 120
 ttactgagtc cttcataaaa atattggaga acaagctcct cacaaatctg gtggtgaggg 180
 caactggcac atagatcttt aaatctctcc cagtattcat ataggctctc tccactgagt 240
 tgcctaatac cttaaataac ctgtctgatg gccgaggtcc tggaagtacg gaaaatcttt 300
 tctaagaata ctctcttgag gtccatccat cttgtgatgg accttgagc aaggtaatat 360

actcagtcct tcgccgctcc cctctaaaaa cga

393

<210> 4455
<211> 229
<212> DNA
<213> Glycine max

<400> 4455

tcttaattgc caccattggt tcttccttc actgaaaatc catggttggt ccatattaac 60
atcctcctct aaatctccat tctaaaaggc agttttcaca ttcactctgat gtagcttcca 120
agtcataatg ggctactaat ggccatgata attctgaaag aatccttttg tgagactgga 180
gaaaatgttc tcatataatc aatgccatct ttctgagtat atcccttag 229

<210> 4456
<211> 456
<212> DNA
<213> Glycine max

<400> 4456

agcttgtaag gctttgggtg ggacatgata gagagactca acttggatac caaccttggtg 60
ctacaacaat tgcagcaaga cccactatcc ataatgagag aataattttt gtttaaaacc 120
ttgcatcttg tatgaaagat gttttctttt tgggtttggg ttaggtcaca agattgactc 180
ccaatgagcc atctctccat tagaagatca ccttcttcgt aggggcaaac ctcttcaata 240
tgctcatcac ccttggcttc accctcactt ccacctgagg aaggagaaga agtagccttc 300
tcttgactac tgtagatgtc ttgatccac atgatcatgg ttttctttgt agtggcattg 360
agaaagaatg tggcctttcc caatacattt taagcactta atgttactag ttctatcttg 420
tgaactaccc tttggagtga tttcttctat gttttt 456

<210> 4457
<211> 464
<212> DNA
<213> Glycine max

<400> 4457

tcttcacata gtccgccttt gcttgacctt ctttatgctt ataaacagaa acattatgca 60
taggcaaaag attaagtgga gttagtgggt taaaaccaca aacaacttca aaaggagaac 120

aattagtggg gctatgaaca gatctattgt aagaaaattc aacatggggg aaacaagctt 180
 cccaagtttt taagttcttc ctcaaaactg tcctaagcaa gggtcccaaa gtcctattaa 240
 cagcttccgt ttgcccacg gtttgtgggt gacaagtggg tgaaaataac aatttagtgc 300
 ccaacttgct ccacaaagtc ctccaaaaat ggcttaagaa cttagagtcc ctatcactaa 360
 caatgctcct tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcaaccacat 420
 gggaagcatc ataaactttt ttacatggaa taaaatgagc catt 464

<210> 4458
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 4458

tgccaaatgt tattacagtc cttttaaagt cacaaaatgc atcgacaaag tttcccacaa 60
 actgcagtta tcgaaagggt ctgcattca tccagtcttc cactattcca ttctaaaatt 120
 gttcctccaa tctcatcga atgaccctca cccagtcgca ctacctgtcg cggacaagga 180
 taaccaacct gtcactctc ctttggccat actcagtact cgctgggatt actcctacac 240
 tggacatcgt ttaatgggtg ttgtgcaatg gtcgagtctt cactctaag atgcatcatg 300
 ggaagagtga gtctccttga aagatatatta tcaacttgag gacaagggtg ttttcgatgg 360
 tcttggaat gataggtaga gaaagataat aaccaacaa gccacagtg aaaggcccaa 420
 gaggaaaatc aactc 435

<210> 4459
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 4459

tgctcactcc tatggctcta gccttgtctg agtcatagag tgctccatt gctctccatg 60
 tattgggaat gtctgggtgc tcaaaatatt ctttattgag tccaaatgtt ccacttttca 120
 ttcggactgg ccagtggatc tacagcacia acccatttag tttgttttaa gacagaataa 180
 ttgatgaaaa tgaaatcaac cctgataac taaactctgc attacatgaa tgcgtataac 240
 cgatgcactt tgctcaaagc gttattttta tttaaagcac ttaggggcaa agaaaacggt 300

tttattttctc ccatttttcag tttaaaatac tttcaagtta ccatgttttt acgtctatca 360
actttgt 367

<210> 4460
<211> 413
<212> DNA
<213> Glycine max

<400> 4460

agccttttgg tgcgattca gattcttcag ctgcattaac tagatcactc aagcagtatc 60
tgacagaaga acaaattttc aagtttttta actaaaactg ataatcttca attcaacttt 120
aagattgtaa agtacatttt ataaaatggg aaatattata caggattgac cactatcttg 180
ggaaagagct tgtggaaaat ctttctgttc tccgattctc aaatctcatc tttgaaccat 240
tatggtcaag gcaatatata agaaatgtac aggtgatatt ctgagaagat tttggcactg 300
aagggcggtg cgggtaacct ttattcctta acagctttca cactttctgt tcttataatg 360
gggattctta tacattttca tatctgtacc atgtgtaggt acttttgacc att 413

<210> 4461
<211> 424
<212> DNA
<213> Glycine max

<400> 4461

agcttaaagg tcaatcaaag aatgagttca agatgtttat gatagaatca agaacacttc 60
aagattcaag aggaaagttg atttcaagaa tcaagatcaa gatccaagac tcaagattca 120
agaatcaaga gaaggcttaa tccagataag tatgaagagg ttttttcaaa aattgagtag 180
cacatggatt ttgctcaaaa catgtttacg aaagagtttt tactctctgg taatccatta 240
ccacattatt gtaatcgatt accagtcgca gaatggattt gaaaatgttt tcaaataaat 300
atacaacgtt ccaattgatt tcaaaaagct gtaatcgatt accatgtttt ggtaatcgat 360
tattagtgcc tttgaacgtt gaaatgtaaa ttcgaatgtg aagagtcaca tcctttcaca 420
taaa 424

<210> 4462
<211> 305
<212> DNA

<213> Glycine max

<400> 4462

ttgagcaact tcaaacaaca ataactttgt actcggatgt ctgattgata cccgtaatat 60
atccagacgc tcgaaattga ataccgaagc tctgagcaaa ttcaaacgcc aataagtttt 120
tactcgggaag gtcgattgag tcccgtgata tatagaaacg ctcgaaaatg aaaaccgaat 180
ctctgagcaa attctaacga caataacttt gtactcggat gttcgattga gtcccgtaat 240
atatctcaac gctctaaata gaatgttgaa gctttgtgct aattcgaacg accataactt 300
gtttc 305

<210> 4463

<211> 525

<212> DNA

<213> Glycine max

<400> 4463

ttaaaagatt ggctaaaatt ttgttaaaac ataagcactt atacaatgaa ggaaagctgg 60
agttgctgca catgctgtct aacattatgt caaggaatca gatcgggctg cacaatgcac 120
aaggcaagat aaaatgtcaa atgaagaatt gaagctgcag gatccacgat gtcggataca 180
atgtccagga catcctgccc gaaaatactg gacacataaa cctgttatat ctttaacaga 240
ttaatgtgca gttagcaaca gatttaggcg atctatcttt aggaacgaat taaaagataa 300
ttaaagttcg aattacaaac ttgaatagtt cgttcagga ttaaagatta aagataaaaa 360
ctaaaagatc aaactttatc ttttagatct ttaaagcaa attttcagga gaatgataga 420
tcttatccag cgcaagttgt tgcagcccaa atacgcacac tgctatataa acatgaaggc 480
tgcacggggtt ttgtaccaag tccgagaatg aagagttatt ttgtg 525

<210> 4464

<211> 298

<212> DNA

<213> Glycine max

<400> 4464

agcttgaaat gcctcatttt tatgagggga gaacaatgtc ccagttttatc ttggataatc 60
atcaactatg acgagtgcac aataactttc accaaaactc atgactcttg atggacccaa 120

caaatctata tgttgtaatt ataaacgttg agttgttgaa acaacgtttt tggatttaaa 180
 cgatgcccta atttggtttc ccttttgacc tgcctcacat aatttatctt tttcaaattt 240
 tagccttggc aagccaacaa ccaaactctt tgaaaataat ttgtttaaat ggtccata 298

<210> 4465
 <211> 474
 <212> DNA
 <213> Glycine max

<400> 4465

ttgaagagct atgtcagaat ttacgaacac attgaacact aaagtgttga gtgacttgct 60
 cataatatca caaaagtgtg cccggatgaa ataagagaaa tttggatcca cattgaagac 120
 ccaagtaatg ttgaaatttg gatcatttac attagcatcc ccatttgctt cagcagtggc 180
 atagacccaa tttggggcag tctcaggtgt aacagccacc ggataactta tgcttgaagg 240
 attcaccgac acatttagga ccgagctgtt gacatgaagg tatttcctat cattcaccca 300
 agtcctaccc aaggtgtcat tttgggcagt aatcaaagga ccccccattgt tcaagcgata 360
 aacagtttca aaggcaagtt cagaaagtcc actgaatgtt gctggcgggt taacagccaa 420
 tgcattgatca aaaaacaact cattcggcat tgacacgact tcaattgcat tgac 474

<210> 4466
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 4466

tctaaacttt atacaagaat gaagctttga taccacttgt ttgacaagtg gcctcagata 60
 tcttaagaag ggggattgaa tttatatatt acaaactatt tccccaatta aaattctatt 120
 tcactttcta ttcaagttac aaattccctt aacaatgaac ttcttaaata ttgattcaaa 180
 tagaacaatc tgaatataaa tataaaacaa taataaataa aagagtttaa aggaagagaa 240
 agtgcaaact cggatttata ctgggttcggc cacacccttg tgcctacgtc cagtccccaa 300
 gcaacccgct tgagagttcc actatcttgt aaaatccttt tacaagttct gaacacataa 360
 ggacaatcct tcctttgtgt tcaaaattct tttacaacaa gagacccttc gtctcttaat 420
 cccttaacaa ttatgaagaa cggaggaatg aatctctctt gaagagaaag att 473

<210> 4467
 <211> 159
 <212> DNA
 <213> Glycine max

<400> 4467

tgaaattgaa caacggaagc tctcgagaaa ttcaaattgt tattacttat cacacgtcag 60
 tccgattccg gcggataata tatcgagaag cctctaattg aacaacgaat gctttcctga 120
 aattctaattg gtcataactt atcacacgga agccccgatt 159

<210> 4468
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 4468

agcttgaatg gcttactgag gatggagatg tgctttgtaa cgaagcaagt ggagttgaat 60
 atttgcattg gaaagtacaa tgataagggtg ctttgtgatg ttgttcctat ggaggccaac 120
 cacttactct tggggagacc atggcaattt gataagagag cttatcatga tggtttcacc 180
 aacaagatct cttttacgta ttaaggcaaa aagatagtgc tccaaccatt gaatcctcaa 240
 taaatgtgtg aggatcaaag aaaaatgaga gagaaaattc tttctgaaaa gagagaaaaa 300
 gaaaaagaga gcttaccact ttaaagttca aaaagtgagg a 341

<210> 4469
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 4469

ttgatttctt ttgttccgga aacctttctt ttctcatgtg cacccaaacc caatctccgg 60
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 tctcaatttg atctttgact ctctcatgaa acttcttcac atagtccgcc tttgcttgac 180
 cttcttaattg cttaaaaaaca gaaacattat gcataagcaa aagatcaaga ggagttagt 240
 ggtaaaaacc ataaacaact tcaaaaggag aacaattagt ggtgctatga acagctctat 300
 tgtaagaaaa ttcaacatgg ggtaaacaaag cttcccaagt ttttaagttc ttccttaaaa 360

ctgttctaaa caaagttccc aaagtccat taacaacttc cggttgccca ttcggtttgt 420
 ggg 423

<210> 4470
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 4470

agctctgcaa ctttttatcc ctagcacaat tgttttgatt caaactattc ctgcactaga 60
 cgagtccaac caatcccaaa caaggtcata ttccatcgaa ttttttggtc atttaacgca 120
 tgtattgatg cgttttcatt ttataaacc attgtgcaa tctatggaac atggctatat 180
 ggaagataca aagggatgtt gttaattgca attgcacaag atgggtgctaa caacatattt 240
 ccattgtcat ttgtcattgt cgaggggtgag acaacagatg ggtggcacat ttttttgaaa 300
 aacttgagaa cacatgtgac acccccacat ggtatatgct taatctctga ccgacatgag 360
 tcaatccaaa atgcctacag atgacctgac aggggggtgga cagcagacac ctcgtcacat 420
 gtgttggtga ttcggcacct atgccccaaac tacaataaaaa aaaccatt 468

<210> 4471
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 4471

agctttctct tttgtgtaac tatctcatcc tctttttcaa gtgtacaatg aagcttggca 60
 gattcaggtg caggtgctgc tactggtgga ggcacttgaa tttggttgcc agacctcaag 120
 gtgaaggcac tcacattttt cggatcctgc acagtttgtg aagacaattt gtcagaattt 180
 tgggactgag cttggttcat ctgagtagcc atctgcccc tttgatttgt tagactctga 240
 atggaagctc ttgtctcttg ttgcaattgc atattctgga tggtcatttg cctcactaac 300
 tct 303

<210> 4472
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4472

agctttaagc aaattcaaact gacaataact tttgactcgg atgtccgatt gagtcattta 60
ataattcttg acgctcgaaa ttgaatacag aagctctcac ccaatttaaa tgacaataac 120
tttttactca gaagtctgat tgtgtcccgt aatatatcta gatgctcaaa attgaaaaca 180
gaagctctga gccaatcca acgacaataa cttttgactc cgatatccga ttgagtcatt 240
taataatttg agacgctcaa aattgaatac acaagctcta agcagattcg aatgacaata 300
acttttgact cgaatgtccc attgagtcatt tttataattt gagacgctca aaattgaatg 360
cggagctctc accccattta aatggacata acttttta 398

<210> 4473

<211> 374

<212> DNA

<213> Glycine max

<400> 4473

gcttttagcc tcagatgatg cagctgattt tgtatctacc tcatgcactc ctctaataagac 60
tatggcatca tttctggcgc taaactgctg agagttggaa gccatctttt caattaaatt 120
tctagcttca acacgagtc tgtctccaag ggctccacca ctggcagcat ctatgatact 180
tctctgcata ttactgagtc cttcataaaa atattggaaa aaaagctgct ctgaaatctg 240
atggcgaggg caactggcgc ataatttttt aaatcgctcc caatactcat acaggctctt 300
ttcactgagt tgtctaatac ctgagatata ctttctgatg gctgtgggtcc ctggaagcaa 360
ggaaaaattt ttct 374

<210> 4474

<211> 413

<212> DNA

<213> Glycine max

<400> 4474

tcctagcggg ttctaattat atggacctat aaatctatca tatgctgaca atagacgaga 60
agttcgtgga tctcctcggg ggggagtagg tgtccgccat cgctttggcc ttggctagct 120
cttcatcaat ggattccttt gcatcttggga agatgaatgg caatgtaatg gagaaaggaa 180
gagagagagg agacgccact tcaaggagaa gatgagtcta gaagaagctc accaccatag 240

gaggccatgg ataagagctt ggaggaagaa agagatgaat gaagggagaa ggagaaaaca 300
 gcccgaatt ttgtgctcta aatgagctct gcaatctgag agttaatact cacaagatcc 360
 aagtttaaaa caatgccac ctttgacctc taattatacc cctactggcc ccc 413

<210> 4475
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 4475

agcttgtgga taatcatatc caaatgtttc ctgatatcat catgatgatt caccagccat 60
 ggatgacctt tgcataaaat caggctatct tcaacatact tcatgaaaat taaagtaaga 120
 atattgatac catatacacc accatgggaa atgggaagac atacttaatg cctgagctgc 180
 cggaatctt ttactgtaat tcttattcaa caacctctgt acaaaatctt tatcatcaac 240
 tgataaagaa tgccgacgag cctcattaaa actaagatct gtcttgagta catcccgaat 300
 tataccatat tctggccggg ccc 323

<210> 4476
 <211> 542
 <212> DNA
 <213> Glycine max

<400> 4476

tagacattag agtcatccaa gagggctagt gtcttcaggg gctgaaaatt atataaaata 60
 aaataaaaat agaacgttag atatcaaaat gtgtaaatga aaataaataa aattcttata 120
 cctataaaaa caaatttcta gaaattgaag taaccagaat aataacatca agttaatgat 180
 agattaaaat cacaatagtt tataagaaaa atatttatgg taataatgaa gatctttaat 240
 atcttaagat taagtattca acatcgataa ttatgagttt aatgatcatg cagcggcaat 300
 gaaattttta tggtaatta atcttaatat tacttttgta aaactccatg aatttatcat 360
 atacattgga aattattaga tgtcagtata aaataatttt agacatttag tgcatagctt 420
 attttctcta attatatctc tatcttattt tattatgatg aagacttttc atccaaattt 480
 tcaaaacggt ccatagaaca tagttttatt aaaacaaaat atggatgtta acaccaaata 540
 cc 542

<210> 4477
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 4477

aagcttctcg aaagattcca aaactagcat acccgtgcat gatttgcatt gtcaaacgca 60
 cagaaggcag atgccagatt cctacgcaca aaccgctgtt gaacataacc aatgtaatct 120
 cattcttctc caaactttca atactcccc cttaatatcc aaccaccacc gccggaccat 180
 atagcccgcc acccaacgcc aactgaacca acaccacgca tgctctctc atctcccca 240
 acaacaacaa agcctggctg ctctttccat ttcccagcac acccggaac catggtggtc 300
 caagacacaa cattcctgca cggcattacc tcaaaaaccc tcctagcccc atcgaaatcg 360
 gcacacctga catacccagc aagcatagaa ttccagctaa caacacttct ctggggcata 420
 ccatcaaaca catggggccc ccgctcaacg ccaccgcgcc cagca 465

<210> 4478
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 4478

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 ggttgataca tggacggcga tgaaaaagat catgaagaag cggtatgttc cggctaatta 120
 ctcaaggggac ttgaaattta agcttcaaaa actaacccaa ggcaacaagg gggttgagga 180
 gtatttcaag gaaatggatg tgctcatgat tcaagcaaat attgaagaag atgaggaggt 240
 aactatggct cgatttctta atggtttgac taatgatatc cgtgatattg ttgagctgca 300
 ggagtttggt gaaatggatg atttgcttac aaagcaatcc aagtggaaca acaattaaaa 360
 aggaaaggag tggctaacag gagttttacc aactt 395

<210> 4479
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 4479

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 ttgcggccat aggacttata attctgaaca tagaaaagta aatcatgggtt gatttggtgg 120
 caggggaagca cagccaatga aatggggccat gaagttgagg gtggccttct acttacctca 180
 agctctacaa tattgcaacta cttaaaggaaa gggtttgat catgatctca atgcctacag 240
 aatcttggtt gatcagggtat aactgggtgt taataaatgc tctccagttc taactaaacc 300
 ctgtttcttc ctatgtgaaa cttggattgg cttgggatgt atcaacagga tgctcatccc 360
 aggttgctct gcttttggac tcatggaaaa gagcacagat ggcaacagtt acagcacaaa 420
 cctggctttt accccttctg aatacttaaa gactggcaaa attt 464

<210> 4480
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4480

agcttcagta atgtgagttt tgaaaagtaa gttttaaatg tatttactct gagtcatcaa 60
 tatacagtta ttagggagat atttaatctc tacaccaag aaataatcca catgacctac 120
 ctgtttgaca gagaatgcag tgtgaaactt ggctgtgagc tgctgaatta aaaaagttga 180
 acctaccgt gatgactata tcatccacat agacccaag aataacaata tgaacctgtt 240
 gcgtgtagat gaccagagaa atggcacatt tgcttcctt caatccaac tgaaatagag 300
 tagatttccg cttatcaaac cactgccttg gaactt 336

<210> 4481
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4481

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 ccaactcttg atgttgattg gcgaaacaat gtttcatttg ctacatgctc ctctaataaa 120
 atgatcatg tttgcaaaat tggagggaat agaccaatca aaactttctc agggcatcag 180
 gtatctcttc ctagtcaacc agttcactga tgggtttttt tattaatata ctaactttta 240
 attggaaagg agacaacgac tttccatcac aaaatagaat aatatgctca cttataattc 300

aactatgagg atattcagtt acagttttta tcattttctca aacattctga aatacttttg 360
 tttcacgatg aagttaatgc cattaaatgg gaacca 396

<210> 4482
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4482

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 catatatttg actgaacatt taagttggaa atattctgaa agccccttta ttcctgaata 120
 ttaccaagc ctcaggtttt gtgataatgg atccccgca aacctaaaag caccatgaac 180
 taaatctttt tactgttggt ggggtcttct aagaaagagt ttgatattta ttttataggt 240
 ttttgttcga gattttgtgc ccagtgtctt agcctttttg atgaatgggt aacccgagat 300
 agtcaggaac ttctgttgga agacacctgc atcttcaggg ttgggaaaaa aaagtacatc 360
 gggttaagct tgggtaaggt gtgatgcc 389

<210> 4483
 <211> 544
 <212> DNA
 <213> Glycine max

<400> 4483

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 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccaag ttctgtatc cagtgatttg aggaaggcca ccattcttgc tttccagtat 180
 tcatagttgc ttccatcaag aattggtggt ctgttactg gtccctcttc tttctccatg 240
 ttcacagaa tttatctccc cagatctcac tctgtgattt cgagtgttgg ctctgatacc 300
 aattgaaatt ctgataccca gggacagatg tcgtacagga tgtcacgaca tcacgcttaa 360
 aaacatgcaa attgtatggt gtcctatgaa cagattaaac acgtaataac accagagaat 420
 tgttaccag ttcggtgcc cttacctaca tctgggggct accaagccag gggaggaaat 480
 ccactctcaa tagtgtagt tcaaggtcta acaaccctt gtttacaacc tttctaccta 540
 acca 544

<210> 4484
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4484

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 aaggatttgt agtttgaatt tgctcagggc ttccgtattc catttcgagc gtttcgatat 120
 attaccggac tcaatccgac attccagtaa aaagttattg gtggttgaat ttgctcaaag 180
 cttcgggtatt tcatttcgag cgtttcgata tattaccgga ctcaatcaga catccgagta 240
 aaaagatatt gtcgtttgaa ttgctcaag gctttcgcatt ttcatttcga gcgtctcgat 300
 gtattacggg actcaatcag acatcccagt aaaaagttat tggcgtttga atttgcttaa 360
 aagcttcac attcaatttc cagcttttca 390

<210> 4485
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4485

tatcatatat cgatacgctc gaaattaaac attggaaact ctcgggaaat tcaaatagtc 60
 ataacttttc acacggatgt ccgattcggg tgcataatat gtcgagaggc tcgaaattga 120
 acaacgcaag ctcttgagaa attagactgg tataactttt tacacggaag ctctcgtgaa 180
 attcatatgg tcataacttt tcacactgag gtccgattca ggcttataat atatcgatgc 240
 actcgaaatt aaacatcgga aactctctaa aaattcaaat ggtcataacg tttcacacgg 300
 atgtccgatt caggcgcata atatgtccag aggctctaaa ttgaaaaaac gaagctcttg 360
 agaaatttca atgggcataa ctttt 385

<210> 4486
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 4486

agcttgaatc ggacatccgt gtgaaaagtt attatttttt gaatttctca agagcttccg 60

ttgtgtaatt tcgagcctct cgacatatta tgcgcccga tgggacatct gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcgatatat 180
 tataaccctg aatcggaact cagtgtgaaa agttatgacc atttgaattt gacaagagct 240
 tccgttgctc aatttcgaat atcactatat gtgatgccc taaattggac attcgcgtta 300
 aatgtcatga ccatttgaat ttctccagag cttccgttgt tcaattctga gcgtctccat 360
 atgtcagtcg cctgaatcgg acatcccggt gaaagctttt acccttttaa ttt 413

<210> 4487
 <211> 474
 <212> DNA
 <213> Glycine max

<400> 4487

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 atttcttctt aagttgatct agaacatgtg catatgctat gcacccaaaa actttaagat 120
 gtctaattga tggtcactgt ccattctagg ctttttctgg cgtcttgta caaacacttt 180
 tagtcaggca cctattcaaa aatgtaaata attgtagcaa ctgcttctgc ccataactcc 240
 ttaggcattt ccattgcctt cgacatgcac ctcaccatat ccattgattgt tctattcttt 300
 ctttcagcta ctccattctg ctgaagcatg tatcttggtg ccaattgatg gtgaatccca 360
 tgctgggtcaa ggaaagtat gcaagtgaga tattcttgct cttttgtcag tcgaagtact 420
 ttgattctac acccattttg cttctctacc aacacatttg aaagcatcac aagc 474

<210> 4488
 <211> 466
 <212> DNA
 <213> Glycine max

<400> 4488

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 cattaagaac tagctccttt ctctctctat tgcccttaat tgaatacacc tttgtttgg 120
 tctctatttg ggtcttaacc ctctcatgca acttctttac aaactctgac ctagattccc 180
 cttctttatg tatgaaagaa gtgtcaagtg ggaggggaat gaggtctaag ggtgttaagg 240
 gattgaaccc atagacaacc tcaaaagggg attgcttggt ggttctatga acccccctat 300

tgtaggcaaa ttctacatga ggaagatact catcccaaga cttatgggtg ccttttagaa 360
gagcccttaa aagagtggat aaagaactat tcactacctt tgggtgccca tcaatttggtg 420
gatgacaagg gggagaaaaa aaaaacttaa tttctaactt aaccca 466

<210> 4489
<211> 364
<212> DNA
<213> Glycine max

<400> 4489

aatacttatt ctcgagaatg gagaattgca ctaagcaatc actacgccta tcttctaact 60
cgaagcggag gacacattaa cgaaaactca attcatgggg cttcgaaaaa agggtttata 120
atggataatt aactaagca atcactacgc atagcttcaa actcaaagt ggaggacaca 180
tgaacgataa cccacttcat ggggctccga aaagattgag aatggagaat tgcactacgc 240
catcactacg catagctcca aacgcgaagg tggaggactc atgaatgaaa acgcaattca 300
tggggctccc aatagattga taatggagaa ttgctctaata caattactac ccctatgtcc 360
aaac 364

<210> 4490
<211> 328
<212> DNA
<213> Glycine max

<400> 4490

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gcaaaattct tttctaacag agggctgagg cagcaattgc tattggggtt tgatgatttc 120
attgcagatg ccttgcaagg tactggattc tatcaaaaag gaacattgga aaataagaga 180
gctgatggta tatcattgct gaagagggtta ttgagaaaaa aaaggaaaaa agccaaatgt 240
aatatatctg tcattccttt cacaactgat ggaaagtagc cattggagtt ctatttcaaa 300
aaaagattat gtgctccttc ataaattt 328

<210> 4491
<211> 479
<212> DNA
<213> Glycine max

<400> 4491

agcttgccgc cacggagttt tccgactatg ctcttggtg gtggaacaag ctacaaaagg 60

agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120

ggaaacggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggggt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

caaattattga agaagatgag gaggtacta tggctcgatt tcttaatggt ttgactaatg 300

aaatccgtga tattgttgaa ctgcacgaat ttgttgaaat ggatgatttg cttcaciaag 360

caatccaagg tgggccacca tttaaaagga aaggaagggc taaaaagagt tttaccact 420

tttggctctc tatttgaaa aacaaaggga tgaaagatgg ggctgggtact tttagaatt 479

<210> 4492

<211> 288

<212> DNA

<213> Glycine max

<400> 4492

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atggggactt catcttcttt ggaggataga cacatcgagg agtaactgga ttgttgaaagt 120

gtccataagt aacacgagcc ctttgatttg ctgcccttca tcagaacttc actcctataa 180

tttgtacca agcatactga ctttgtgaag gttacattgg atccttcac aaccaactga 240

ctgaagctga tcaagtttgc agtcactccc tttaccagca gaactttg 288

<210> 4493

<211> 598

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4493

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tnnnnnnann nnnnncccc cnngcacca ccacttcgg cacatctaca aaatcatttg 120

gataaagttc aaccatcctc aacaaatttt tcacatcaa agctttaaat gatgatgagg 180

gactcaaaca tgaaacacat tgtaaaagtt cagtattctc ttcacaaac ctagcattga 240

gctcatgcaa ctgcaaatct aaaacactaa ataaaaaatc atgcttataa tgatgaaaat 300

tagaaacact ataagtggta gcatgtcatc taggtttctt cccttgcaca tacggtgcat 360
 ccaaatacaag cacattaata tcatgcttat tgcaaatttc cataacctta gatataagtt 420
 ctttccattc atcatttctt atttcttgga aattcttctt tgggtggcttt gacaagtgat 480
 aaagcatttc aaaagatctt gatcacgcct ttggagcgct tcaacttaaat catttgtaaa 540
 atctcaaata tcaacctca tgtataacat ggaaattaaa atcaaggact gaagccca 598

<210> 4494
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 4494

ttttgggatg tttccagcct ttgatgacag ctttccaggt tctgctatcc agtgatttga 60
 ggaaagccac cattcttgc tttccagtatt catagtgggt tccatcaaga attgggtggtc 120
 tgttactggt tccttcttct ttttccatgt tcatcagaat ttatctcctt agatctcact 180
 ctgtgatttc gagggttggc tctgatacca attgaaattc tgataccagg ggacagatgt 240
 tgtaccggat gtcacgacat cacgcttcag aacatgcaga ttatatgtgt ccgtatgaac 300
 agattaaaca agttaataac acaagagaat tgtttaccca 340

<210> 4495
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4495

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 aaatntttng aaattgaagg ggaagnnnna aaaatgggat tggggctgta ttgttacaag 120
 aagttcatcc aattgcttat tttagtgaat aattaagtgg tcctaccctt aactattcta 180
 cttatgataa ggagttgtat gccttactga gagcggtgaa aacatggcaa cactatcttt 240
 atcccaagga gtttgtgatc catagtgacc atgagtcctt aaaatactta aaaggacaag 300
 gtaagctaaa taaaaggcat gccaaatggg tggaatttct tgagcaattt ccttatgtta 360
 ttaaacataa aaaaggaaaa ggaaatattg ttgcagatgc cttgtcaagg agacaccttt 420

tgctttctat gcttganaca aaaatgattg ggattgatta cttgaaaaaa atgtatgaag 480
gaaatgacac ctttggtgaa atc 503

<210> 4496
<211> 528
<212> DNA
<213> Glycine max

<400> 4496

agcttgcttg agcttgcagc taataacgat gttgaagggt tttagcgaat gattgagagg 60
gatecttctt gtgtagatga ggtaggacta tggtagagtc gtcaaaaggg atctaggcgg 120
atgggtcaatg agctcagaac cccattgatg gttgctgcta cttatggtag cattgatatt 180
ctggatctga ttctctcact ttctggctgt gatattaata aaccttgtgg ccttgacaag 240
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ttgcttctag cagcgggggc tgatccaaat tctgtggatg gcaatgggtca tcgtccagat 360
gatgtcattg ttgttccttc caagcatgag tctgttagaa acaatcttga agcacttctt 420
taaactgatg acttcattgc agtgtgtaat ttcagggtgg acaccgcttc atcaaatgca 480
tattcttcac ctttgtcaac attatcagag aatgggtctc cttttgca 528

<210> 4497
<211> 591
<212> DNA
<213> Glycine max

<400> 4497

agcttgaagg caaattggat gcattgggta acttggtaac ctagctggcc ttgaaccaga 60
aatatgtacc tgttgcaagg gtctgtgggt tgtgctcttc tgctgaccac catacagacc 120
ttttcccttc catgcagcaa cctggagcaa ttaagcagcc cgaagcttat gctgctaata 180
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattataacc 240
tctccagcaa cagatacaac cctggatgga ggaatcacc taatctcaga tgggtctagcc 300
ctcagcaaca acaacaacag cctgttcctt ccttccaaaa tgctgctagc ccaagcagac 360
catacattcc tccaccaatc caacaacaac aacagcgcca gaaacagcca acagttgaga 420
cccctccaca acctttcttc aaagaacttg tgaggcaaat gactatgcag aacatgcagt 480

ttcaacaaga gaccagagcc tccatttaga gcttaaccaa tcaaattggga caattggcta 540
 cacaattgaa tcaacaacag tcccaaaatt ttgacagctg gcttttttaa c 591

<210> 4498
 <211> 691
 <212> DNA
 <213> Glycine max

<400> 4498

agcttcaatc ttttacttgt gtttcattca gatgtattta ctactttcaa aactcaatac 60
 ctttatgtat ttatgtactt ttacacata tttctatagg ttaaagttat ttcattactc 120
 tcttttttgt ctaaaagtgg tatatgggta tatctaaaaa tgacattttg cactcataaa 180
 gtatttcgaa agatgcattt atttttaccg aacaatttat cttttgtcat gactagtatg 240
 taataaataa ataaaaaaga aattttttac tcatgttttc ttaaaggaaa aagctttctt 300
 cactggattg atgaacatga ttatctaaaa taaatttaaa ttaaaggaaa aaggcgtgat 360
 ttttcataat agattttagg atgtcacacg ataagcttaa atattttgga tttctttttg 420
 tctcacacta tattgttaga aaaactcctg aattttttct tttgcaaaaa tattataagc 480
 tattggacta attatatctt tgggtttcaa acttttcttg aaattttact tgtagtcctt 540
 aaacaaaaat ttaataataa tatttgggtcc cctataatat tttttctatt caatagtctt 600
 aagttctttg ttaccaagta aaaatgggta atttgaatac cttaatcaat tcaatcattg 660
 tattaggccc cataactcat tttttttttt t 691

<210> 4499
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 4499

agcttgctgc cacggagttt tccgactatg cttttgtgtg gtttaacaag ctacaaaagg 60
 agagagcaag aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgcccggc aattactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaagtaacta tggctcgatt ttttaatggt ttgactaatg 300

atatccgtga tatttgtgaa ctgcatgaat ttgttgaaaa ggatgatttg cttcacaaag 360
caattcaagt 370

<210> 4500
<211> 504
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4500

taggaaccca aactttagc ttcaatgcaa ggaaacgtgc ttatggcttn nganccccaa 60
aatnngnnn nanaattana aannnannnn nnnnnnnatt tgtttgtaag aatttgggct 120
gccccatgat tggactttg cacctaaata acatgggaaa tgattttcaa tgctgtgtag 180
atatatgtgt aaatatgaag ggcataaata tctttgcaaa ggatgaagga atattgaggt 240
cacttcctaa atgaatgtat gatagcatgg gattcccttt tgaatgcaag tatgtgcata 300
atgttaaata tcttgccaat aggcataagt gtgagtgaag caatgaaagt ttgtatggta 360
tatatatctt gagtgtgtgt agttagtttg tgatagcaaa tgtttaggat ataattaagt 420
gtaaattttg acgcaatgcc ttaaactgga gaatgtgtgt ttcttttaaa atgcatatat 480
atgtatgaca attggaatgt gttg 504

<210> 4501
<211> 244
<212> DNA
<213> Glycine max

<400> 4501

tggtcataac ttttcacatg gaggttggct tatgcgcata atatatctag acgctcgaaa 60
ttgaacaatg gaagctcttg agcaattcaa atggtcataa cttgtcactc cgaagtggga 120
ttcaggcgca taatatatct agaatctcga aaatgaacaa tggaagctct tgagcaattt 180
aaatggggat tactttttac tcggaagggc gattcacgcg cctaatatat cgagacgctc 240
gaaa 244

<210> 4502
<211> 509
<212> DNA
<213> Glycine max

<400> 4502

agctttgatg taacatttgg agaggttaat gatacaacga gatgatgcgc tccatgagag 60
gttgatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgaccat 180
ttgaaatgct caagagcttc cattgttcaa tttcgagcgt cagcatatat tatgcacctg 240
aatcggaact gcgagtgaac acttatgacc atttgaattg ctcaagagct tccattgttc 300
aattttgagc gtcacgatat attatgcacc tgaatcggaac ctgcgagtga caacttatga 360
ccatttgaat tgctcaagag cttccattgt tcaatttcga gcgtctcgat atataatgcg 420
cctcaatcgg accttcgagt taaaagttat gaccatttga attgctcaag agcttccatt 480
tttcaatttc gagcgtcaca atatattat 509

<210> 4503

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4503

ttgatgcaac agttggagag gttaatggaa gaaggtatat ctncnctnna tnanangnnn 60
natnaaatgg anaatanaga nnttcctnn aaaagaaagg aggagaagag ggaatgatga 120
tgttcctaga caaaaccgaa ttgatggtat taaactcaac attcctctct ttaaaggaaa 180
gaatgatcca caggcctact tggaatggga gatgaaaata gagcatgttt tctcatgcaa 240
aaactatgag gaggaccaa aggtcacgct tgccgccacg gagttttccg actatgctct 300
tgtgtggtgg aacaagctac aaaaggagag aacaagaaat gaagagtcaa tggttgatac 360
atgggaggag atgaaaagga tcatgaggaa gcggtatgtg ccggctagtt actcaaggga 420
cttgaaattc aagcctcaa aactaacca aggccacaag ggggttgagg agtatttcaa 480
ggaaatggat g 491

<210> 4504

<211> 458

<212> DNA

<213> Glycine max

<400> 4504

agcttctgtc cctgagaaac tggtttccag aatacaacag ggagtgaaga ttgctgaaaa 60

ccctagcctt gcaacaagtc ctagggaagt agatacggag atggacaaga aaatctgcag 120

tattgtgagt agcattttga aagacgcctc tgtgcctgaa gctgatgaag atgtcccaac 180

atcgctccacc ccaaagtgtt ctgtgcctga tgtcaataaa gatgttccaa catcttccgg 240

cccaaagtgt gaagtactct cttccccccag caaagagaga tcaacagagg aagatgatca 300

agccgcagag gagactccta caccacgggc accagaacct gctccagggtg acctcattga 360

cttagaagaa gtcgaatccg atgaagaacc cattgcaaac aggttggcac ctggcattgc 420

ggaaagaatt taaaacagaa agggaaaaac ccctctta 458

<210> 4505
 <211> 484
 <212> DNA
 <213> Glycine max

<400> 4505

agcttgtaca cctctgtttc tctacctttc attacaaact tttgtgggtg agtgacaaaa 60

acttcttctt ctagtgagcc attaagaaat gcagatttta cattcatttg gtatacttcc 120

cagcaattgt agctagccat tgctattaca agtctcactg tttccaacct agcaacaggg 180

gcaaatactt catcataatc cagaccttgc ttctgtagaa atccctttgc aacaagtctg 240

gctatgaact ttgttacttc tccttttagga ttcaacttag tttttagtag ccattttact 300

ggtatggctt tctttcctgt tggtagcttt gtgagactcc atgccttggt ttttctaata 360

gacctcagct cttcttccat tgcttcaacc caatgggagt gcttcaaagc ttctttcacg 420

cccaataggt tccatctcag caagtaaggc catatggaca aaatcaccat caactgtaat 480

cgag 484

<210> 4506
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4506

taaacattca atttcgagcg tntngttata ttactggccc ctttngnnnn nnnnnnnnnn 60

nnattgnnnn ngaannnnnc nnnnnttaaa cattcaactt tgagcgtctc gatataattac 120
 gggactcaat cagacatccg agtaaaaagt tattgccgat tgaattggct cagagggttca 180
 aaattcaatt tcgagcgtct cgatataatt ctggactcaa tcaaacaatcc cactaaaaag 240
 ttattgccgc ttgaattggc tcatagggtc aacattcaat ttcgagcgtc tcgatataatt 300
 tcgggactca atcagacatc cgagtaaaaa gttattgtcg cttgtaatgg ctcagaagtt 360
 caacattcaa tttccagcgt cccg 384

<210> 4507
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4507

agctttaagc caattcatat gacaataact ttttactcgg atgtatgatt gaggcccgta 60
 atataacgaa acgctcgaaa ttgaatgttt aagctttgag ccaattctaa cgataataac 120
 tttttactcg gatgtccgat tgagtctcgt aatataatcg cacgctcgaa attgaatgtt 180
 gaagctctaa gcctattcaa acaacaataa cgttttactt ggatgtccga ttcagtgcg 240
 taatatatcg ggacgctcga aattgaaagt tgaacctctg agccaactca aacgacaata 300
 actttttact cggatgtccg attgagtcgc gtaatatatc aggacgctcg aaattgaatg 360
 ttgaacctat gagcctattc aaacgacaat aactttttac ttggatgcct gaatgagtc 420
 cattatatat cgagacgctc gaaattgaaa gtttaaactt tgagccaatt caaacgacaa 480
 taacttttta ctngatgat tgat 504

<210> 4508
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4508

tgaaatgcat nattnttatg agtaataaat agngtnaagn atannnannn aannanaana 60
 nngncnngnn nnnanannnn ncacccaaaac tcataattct agaaggacca aacaaattca 120
 tatgtaacaa ttgtaatgat tgagtagttg aaacaatctt tttggatttg aatgaaactc 180

tagtttgttt tcccttttga catgcatcac ataatctatc tttttaaaat ttcaatttag 240
gcaaaccaac aactaaatct tttgaaatta atttatttaa gtgttccatg tttatgtgag 300
caattcgttt atgacatagc catggatcat catctttgct aagaaaacat tgattattat 360
atagtttatg gcttaaagtt atcatataaa cattggtgac tctataccct atatgctnta 420
tattagtaac atgcttatgc tctatgagac aattttttaga atcaaattat actagatagc 480
ctttatcaca taagtgacta acactaagc 509

<210> 4509
<211> 202
<212> DNA
<213> Glycine max

<400> 4509

agcttattct gattgtaggg tcgtaggaga gtataacaag ccccccaaa cactcaggaa 60
cttataatct ggggtgtctgt tgaacaattt ctgataaggc acctcttgat taatagagga 120
tgatggaagg cgattgataa ggtacatgct agaagtaaca gcatgggtccc cgtccacaag 180
agtcatagag acttgcgata ac 202

<210> 4510
<211> 402
<212> DNA
<213> Glycine max

<400> 4510

agcttgtaat cgattacatc atttgtgtaa ttaccaaaca caaaaaattc atttttcaag 60
tctaaagagt cacaactctt caaaaacaaa ctgtgtaatc gattaccaca ttcatgtaat 120
cgactaccag taaggaattt tcgaaaataa ctcccaatag tcacaactgt ttaagaagtt 180
tttgaatggc catcaaaggc atataaatag gtgacttggg atatgaaatt ccttagagtt 240
tttctgaaca acattgtctt atcctctcaa aaccaaattg tcttatgact ctcaaaatat 300
tccttggcca aaacacttgc caattcaata aggaatcttg atcaatcttt aattgtaata 360
tccttctctt aaagaaagaa aatccttctt cttcttattc aa 402

<210> 4511
<211> 372

<212> DNA
<213> Glycine max

<400> 4511

agcttctatt ctgaatttca agcatctcga tatactacgg gacacaatcg aacatccgag 60
caaaaagtta ttatcgtttg attttgctca cagcttctat tatgaatttc aagcatctcg 120
atatactaca ggacacaatc ggacaaccga gtaaaaagtt attgtggatt gattttgctc 180
aaagcttctg ttctgaattt caagcgtctc tatatactac gggacacaat cagacatccg 240
agtaaaaagt tattgtcgtt taattttggc agaacatctg ttttgaatgt tcaaacgttt 300
tggtatacta cgggacacaa atggacattc gggtaaaaag gtattggccc ttgaattttg 360
ctcagaactt tt 372

<210> 4512
<211> 553
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4512

atagaatagc taagcttctt acaggattaa cttgatctgt aagtnttaaa aatcaacttt 60
atcnntaaaa aaanaannna nnanannaat aatnnnanca tttnnnnccg gagatgggtg 120
caccagcaat gatactaggt gtacctaaca acactctcaa ctaattcaac taattcatac 180
tttatgcttt attggactct cattacaatt ttctaattca ttgataatgt ccaaaaactaa 240
attaaattaa taaaataata ctgaatgaac gatgaaacta aaagtgtttg ataaattatt 300
ttatatgaat cttgtataaa tcattttcaa taaaaaaaat tattgaattt ttatctattt 360
ctaattaagt attgtttatt ttagatgggtg aacctaacac tctttttaag taaataatac 420
tatccctcta ttttggtaac gttatacagt taaaggggtga cagtgtaaag tgtaaggata 480
aaaaagagag gaaagtttgt ataaatctta cgaaatttta aaagtatcaa tataatttac 540
ttactttttt aat 553

<210> 4513
<211> 477
<212> DNA
<213> Glycine max

<400> 4513

gcatgcaagc ttgtgcaaaa gttaccctgc cagtcgtgga taggatctta gctttccatt 60
tagtaatfff tcgccagata tttctaatat ggggtttaaa cagctactca tttctcttat 120
gatcctatac taggaaaccc aaataggaat caagattatt agtaatagtc acctgaagct 180
gttgactaag ctccctcacc ttagcttatg agacattagt tgagaagaga acctttgatt 240
tgctcatgtt gatctttctgg ctagatgcat tagcaaaagg gtttaatatc tggttgactt 300
ccccagctgc tacactgaag cttcagccac caaaatcaga tcatccgcac agaataagtg 360
tgagacatta acccaccgag aatggatgcc aggtaccatt ctgaactgaa tcttggatga 420
gatgtgcccc tctctgaata cacaacacaa atattttagg gagagaacgg gtcccccc 477

<210> 4514

<211> 353

<212> DNA

<213> Glycine max

<400> 4514

agcttgagga cacatgaacg aaaacgcaat tcatggggct ttgaaaaagg ataagtatgg 60
agaattgcac taaccaatca ctacgcatgg ctccaaactc aaaggtggag gactcatgaa 120
cgaaaactca attcatgggc tccccaaaaag ggttgagaat ggagaattgc actaagcaat 180
cactacccat agctccaaac tctaaggtgg aggacacatg aacgaaaacg caatttattg 240
ggtctccgaa aaaggttgag aatggagaat tgcacttagc gatcactacg catagctcca 300
aactctaagg tggaggacac ctgattgaaa acgaaattca tggggcttcc aaa 353

<210> 4515

<211> 550

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4515

tgtaatcgat tacacaagtn ttgtaatcga ttacctgagg ggattnttan aaaataattt 60
nnaaaagtna aatttattcn nnnngcccat gaatggccat caaaagtgac ttggaaacac 120
gaatttaaag agagttttca ttgccccaaac agttttatgc tctcaaaaga ttaagagttt 180
ttctgaactg aaatgtctta tcctctcaaa aagattcctt ggtcaaccac ttgcatattc 240

aataaggaat ttgattgat cttcattgta caatctatct cttttaagag agatttcttc 300
 ttctcttctt cttatttctg aaaaaagatt taagagaccg tgggtctctt gttgtagaga 360
 attcttgaac acaaggggaag ggttgcccct gtgtggttca gactttgtag aaggagtttt 420
 acaaagaaga gtgaaaatct caagtgtttg cttgaggact agacgtangc acgagaagtg 480
 gccgaaccaa tatanatcaa agttgcattt ctctcttctc taaacttctt tttttattgg 540
 tatttatctt 550

<210> 4516
 <211> 563
 <212> DNA
 <213> Glycine max

<400> 4516

agctttaatg aatttaattt tttttatatt aaattttcat ttttaattca aatattaact 60
 acctatattt tgaaattaat tctttttgat ttattaaaga atttctcttt tccactaaag 120
 ctaaactacc cattccattg ctagtcttgt gttttacttg aaatgtttga atattttttc 180
 ttgtatcttt tgcattgtaat gattttttgt tgttattagc ttgttaatta tacctttgat 240
 tgagaatgat ggtgtgttta gaattagatt agattataac ttttgcattg tattcattaa 300
 ttctggatta taatttttat ttttgtgcat cttatcttta atttctatat agtataaatt 360
 ataaattttt gaatctataa tctctggtat agtgggttat ctgctacaca tggatatagt 420
 tttttggggc cagccatgcc ttatcatgat cccagattta tgatattacc ctttcattta 480
 tttctaagtt ggatgacttg gatctaaact atcatcatct tttgagctgc agttaaacat 540
 gtggatttaa tattgataaa taa 563

<210> 4517
 <211> 535
 <212> DNA
 <213> Glycine max

<400> 4517

agcttcaggc tgctcaattg ctccaggttg ctgcatggaa gggcaaaggc ctgtatggtg 60
 gtcagcagag gagcacaagc cacaaaccct tacaacaggc acatatttct gatttaaggc 120
 cagctggggt accaagttaa ccaatgcata cagtttgctt tcaggcttct tagtctcaga 180

tgatgcagct gagttttag ctacctcatg cactcctcta atgactatgg catcatttct 240
ggcgctaaac tgctgagagt tggaagccat cttctcaatt aaatttctgg cttcagcatg 300
agtcattgtc ccaaaggctc caccactggc agcatctatc atacttctct ccatattact 360
gagtccttca taaaaatatt ggagaagaag ctgctccgaa atctgatggg gaaggcaact 420
ggcacataat tttttaaatc gctcccagta ctcatcggg ctctctccac tgagttgtct 480
aatacctgag atatctttct tgatggctgt ggtcctggaa acacggaaaa atttt 535

<210> 4518
<211> 577
<212> DNA
<213> Glycine max

<400> 4518

agcttagaat gcagaagaag cagcattcaa tttaataatg ttctttaaac atgccagaca 60
aaattgattg caataaaata aatgagataa gagaagagag aatgcaaaca tagttttata 120
ctgggtcggc aaagtccgtg cttacttcca atactcaagc aaccgcttg agattttcct 180
ttctctttgt aaattccttt acaacttctg aaccacacag ggacaactca tcccttgtgt 240
taaggaattc ttacaactta agagaccctc agtcccttaa tcaatctctt tgaatgagaa 300
gaaagaaaga agaattctct cttgaagaaa aggatattac aattgaagtc catggagaaa 360
ctcttaatgg atttgcaagt gtttgcctaa gagtttcttt tgagagagca tttggcaatg 420
aagttagatg tgccatcatt ttcttctatt tcttaaacc tttttgcacc attttaatta 480
ttgattagtc ttaattgcaa attaattagg cagttttatt atttgggctc atttaactaa 540
tttgatgttt ttatctaatt ttagaaataa tgaaaca 577

<210> 4519
<211> 541
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4519

tctcgatata ttatgtgcct gaatcggact tnngttnnaa aaannnnnnn nannnnaatn 60
nntnnaaann nnnnnncccc nnnttcgagt gtctcgatat attatgcgcc tgaatcggac 120

ttttgtgtga caagttatga acatttgaat ttctcgagac ctttcggttt tcaattaaga 180
 tcgtctcgat atgtgatgcg ccagaatcgg acttccgtgt gacaagttat gaccattgga 240
 atttatcgag accttccgat cttcaatttc gaaggtctcg atatattatg tgcctgaatc 300
 ggactttcgt gtgacaagtt atgaacattg gaatttctcg agaccatacg ttgttcaatt 360
 tcaagcgtct cgatatatta tgcgcctgaa tcggacttcc gttagacaag gtatgacctt 420
 ttgaatttct cgagagcttc cggtttttaa tttagagcgt ctcgatatgt catgcgcccg 480
 aatcagactt ctcgggtgac aagttatgac cattggaatt tttcgagagc tttcgatggt 540
 c 541

<210> 4520
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4520
 agcttctcga tatattatgc gcctgaatca gacttccgtt acaaaagtta tgaccatattg 60
 aatttctcga gagccttcgt tgttcaattt cgagcgtctt gatatagtat gcgcctgaat 120
 cggacttccg tgtgataagt tatgaccatt tgaatttgtc gagagcttcc gattttcaat 180
 ttagagcttc tcgatatatt atgaacctga atcggacttc cgtgtgacaa gttatgacca 240
 tttgaatacc tagatagcat tcgttgttca atttcgagcg tctcgatata ttatgcgcct 300
 gaatcggact tccgggtgac aagttatgac ctttgaatt tcttgagagc atccgttggt 360
 agatttcgag cgtctcgata tattatgcg 389

<210> 4521
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 4521
 atgatattgc agaatttttag aacaaatgca cattcatgga caagattcta caggaaaaag 60
 agaaggaagc aatgaagatc caccagtaga agtcaaagca aataatgatt ttccaagaga 120
 gtgaaaaact tcaagagatc atcccccttga caacatcatt ggtgacatct caaaaggggt 180
 aactactaga cactctctca gagatttatg caataacatg gcttttgtat ctatgataga 240

acctaaaaat ttaaatgaag ccataataga tgaaaattgg ataatagcta tgcaggaaga 300
actaaaccaa tttgaaaaga atgatgttgg gagttagttg aaaaacctga aaactatcca 360
atcattggaa caaaatgggt tttttaaaat aaat 394

<210> 4522
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4522

tccgttattc aattttgagc gtntngatat atcatngggc cccttntcan nnnnnnnnnn 60
nnaaannnat ggnngnnnga annngcccaa aaattcagtg gtcaatttca aagggtgcga 120
tatatgatac acgtgaatca gacatccgag agaaaagtta tagccatttg aattttctga 180
gagcgtctgt tggccaattt tgagcgtctc gatatatcat gggcatcgat catacattcg 240
agtcaaacgt tatggccgtc tgaatttgcc gagagctttc gtgggtcaatt tcaagggtct 300
cgatatatga tgcacgtgaa tcggacatcc gagtgaaaaa atatagcctt ttgaatttct 360
cgagaggttc cgttgttcaa ttttgagcat ctcgatatat catgggctgc gatcatacat 420
tccagtcaaa agttatggcc gtttgaattt gccaaagctt ccgt 464

<210> 4523
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4523

ttgagcagaa tnaaangaca ataaattttt actccnangg nnnannngnn nnnngnnngn 60
atnnagaagt tcgnncccn nanaaaagct ctgagcagta tcaaacgaca ataacttttt 120
actcggatgt ccgaaagaat cccgtaatat atcgagacgc tcgaaattca aaattgaagc 180
tttgagccaa atctaacgac aataactttt tactcggatg tccgatttg tcccgtaata 240
tatctagacg cacgaaattc aaaacagaag ctttgagcaa aaatcaatga caataacttt 300
ttactctgat ttgcgattgt gttccgtagt atattgagac gctcgaaa 348

<210> 4524

<211> 622
 <212> DNA
 <213> Glycine max

<400> 4524

agcttttgatt tcctttgttc cggaaacctt tcttttctca tgtgcaccca aacccaatct 60
 ccgggttcaa agacaacctt ctttctccct ttgttggtt gtttaacata gcttttattt 120
 ttcctctcaa tttgatcttt cactctctca tgaagcttct tcacatagtc cgcctttgct 180
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagt 240
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300
 ctattgtaag caaattcaac atggggtaaa caagtttccc aagtttttaa gttcttctc 360
 aaaattgtcc taagcaaagt tcccaaagtc ctattaacaa cttccgtttg cccatcggtt 420
 tgtgggtgac aagtgggtga aaataacaat ttagtgccca acttgctcca caaagtcctc 480
 caaaaatgac ttaggaactt agagtcccta tctaatacaa tgctctttgg caaacatgg 540
 agtctcacia tctccttgaa aaacaaatca gccacatagg aagcatcatc aactttttac 600
 atggaataaa atgagccatt tt 622

<210> 4525
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4525

atgtttcatt tgagttcaat gctatggcac agagatggga caccatcaaa gtggacgacc 60
 tcaagataca aaggaatgaa tttgtggctg tgaactgcat gtttcagttt gagcatctgc 120
 tagacgagac tgtggtgttg aataatccca gggatgctgt tttgagattg attaagaatg 180
 caaatcctga catatttgtg catggcattg tcaacggatc ctatgatgta ccattctttg 240
 tgtcatgggt ccggggaggct ctctttcatt aactgcatt gnttgacatg cttgacacca 300
 acgttgctcg caagaatcca tgaggttgat gtttgagaag gaattgtttg gacgggagat 360
 agtgaacatt atagcttgtg aaagttttga gaggggtgaa agagcacaaa catac 415

<210> 4526
 <211> 408

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4526

 tatgctgcaa anattttataa tagaccttct tcgcannnna nnnnnnannn annaannnnt 60
 nnnnnntttt aannnnntccc cnaattcat gttggaggaa tcatccaaat ctgagatgga 120
 caagtccttc acaacaacaa cagtctgtcc ctcatTTtca gaatgatgct gatccaagca 180
 agccatatgt tcctcttcca atacaacaac atcagtcaca acaaagacaa caagcaactg 240
 aggctccttc tcaaccttcc ttagaagagt tagtgaggca aatgaccatc cagaatatgc 300
 aatttcagca agagacaaga gcctccattc agagtctgac aaatcagatg gggcagatgg 360
 ctactcagtt aaaccaagct cagtcccaaa attttgacaa atgccttt 408

<210> 4527
 <211> 445
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4527

 catcagacca cttccagggt gctggaacta cttcacatgg actngatggg gcctatgcaa 60
 gttgaaagcc ttggaggaaa gaggtatgcc tatgttgttg tggatgattt ctccagattt 120
 acctgngtca actttatcag agagaaatca gaaacctttg aagtattcaa agagttgagt 180
 ctaagacttc aaagagaaaa agactgtgtc atcaagagaa tcaggagtga ccatggcaga 240
 gaatttgaaa acagcagggt cactgaattc tgcacatctg aaggcatcac tcatgagttc 300
 tctgcagcca ttacaccaca acagaatggc atagttgaaa ggaaaaacag gactttgcaa 360
 gaggtgcta gggtcatgct tcatgccaaa gaacttcctt ataatctctg ggctaaagcc 420
 atgaacacag catgctacat ccaca 445

<210> 4528
 <211> 453
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4528

tgtaggggta aagtttcacg aatgtcacgt gctcatgcaa caattgttag tctgggctat 60
 acgagacatc ttgccaaaca aagtcagggt cagcataact cgcttgtgct ttttcttcca 120
 tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
 aattatactc tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
 cttgattgtg catctgggta gagaaatcaa atgctatggc cctgtttatc tacgggtggat 300
 gtacccgggt gagcgatata tgaagatctt anaagggtat acaaagaatc tatatcgtn 360
 ggaagcatct attnttgaga ggtacattgc agaagaagcc attgaanttt gttcagaata 420
 cttagagaag gctaaagctg ttgggctttc tga 453

<210> 4529
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4529

cccgatctc taagcaccgc ggctgcagct gatcaattga ggagagatgt tcggaagtat 60
 tcaactacca caggaaagaa agttgttgga gcaaaatggg tctttcacia caaactatat 120
 gataatggta aagttatgag aaacaaagca tggtagttg ctaaagaata ctacaagaa 180
 gaaagtatag actacaaaga aacttatcca cctgtagcat gtctagaggc aatacatatc 240
 ttactttcat ttgcagctta taaaaatatg aagctatatc aaaaggacgt aaaaaatgca 300
 tttctaaatg gcttaattca agagtaagtt tatgttgaac aatctccatg ctttgggaagt 360
 gaaacctttc ctcaacatgt tttcacactc aacanagccc tatatggact taagcaagct 420
 cctagagctt ggtacgaaaa actaagttca tt 452

<210> 4530
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4530

agctngaagc tcaagaaaaa gcttgaagat gttttagaag aagttntggc ttttagatgt 60
 tattagcagc ttcaactacc ccattcatct tgggcctgta tggcgtggaa ttatgggtgt 120

ggatcctgaa atcctcacac atttccttca tcattttgtt gttcagattg gtggcattat 180
 ttgtgataat cttcttgggc aaccataacc ggcagattat ctctttctta atgaacttga 240
 ccaccacact ccttgtcaca ctggcatatg aagcagcttc aaccatttg gtgaagtagt 300
 cgatcgcaac caaatgaag cgacgtctat tcgaagcctt ggcctcaata gcccacatca 360
 catctattcc ccacatagag aatgcct 387

<210> 4531
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4531

agcttgttgt atagaaatcc tcgttgaatg tgctttttac accgaacaac atttcatttg 60
 tttcaaactg atcccatccc ctagaaaaat aaaaaataa ttgtcaacgt aaaacaaaaa 120
 cagaggagct attaagaact gcaataagaa acaaatgaca aaaacctgga tataaataat 180
 ggtagtagca atgtcatata ttccattaag cctcatctta ataagtaaag acctagcaca 240
 aaatccccta tttcagtttt ggaatgtcag aataattcat aaccagattt tatgccaata 300
 ttctttcaat aattccgagg gcgagccctg gtgcagcggg aaagtgtgac cttggtgact 360
 tgttggtcat gggttcgaat ccggaacag cctctttgca tatgcaaggg taaggctgag 420
 tacaacatc 429

<210> 4532
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4532

tgtatttctt gtttgactac atataaggat atctccacaa tctgttagtc ttcaactaat 60
 ttgctgttct ctctgccaga aaataaaaca tcaatacaga gatagggctg ctgatagaag 120
 aatattgcat ggtggcttcc gcatgggtcc aggacagaag aatctgtcgg acatttataa 180
 tacaccatct tcacctcgtg atgattgtcc acaagaagct accgccaacg ccttggagat 240
 gtcatttggg gctggtagtt atgctagaca acttctacna agcatggggtt ggaaggaggt 300
 atcttcttac tttcttatca tcanattact cccttttatt ttattgaaga ttctaagaac 360

tgctaataata atttcaactc ctatcacaac tttct

395

<210> 4533
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4533

gcaagcttat aatataatcga anatgaacaa cggatgctct cgtgatattc anatggacat 60
aactttttcac actgagggtcc gattcagggtt tataatgtct cgatactctc ggggtaagca 120
tcgcaccctc tctagaaatt caaatggcca ttacttttca cacggatgtc cgattcgggc 180
gcataatatg ttgagaggct cgacattgaa caacggacgc tcttgaaact ttgattggag 240
cttaactgga cacacggaag tacgattctg gctactctca tgtcgagacg ctctgtctga 300
aaacccttga tgccttagag aaaaagagat gcgcttttct ttacactat ttaagcaatg 360
ccacatgtct ccatttgagt ggagcaaaaa gggcccactt tccctctttg aat 413.

<210> 4534
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4534

ctaagcttaa tcggacattc gtgtganaag ttatgaccat ttgaatntct caagagcttt 60
cgtgttcaat tctgagcctc tctacatatt atgcgcccga atcggacatc cgtgtgaaaa 120
gttatgacca tctgaatttc tcaagagctt tcgatgtgta atttcgagcg tatcgatata 180
ttataagccc ggatcggaac tcagtgtgaa aagtcatgac catctgaatt tcacgagagc 240
ttccgttgtg cattttcgag cgtctctata tgtgatccgc ctgactcgca catccgcgtg 300
aaaagctatg accatctgaa tgtctc 326

<210> 4535
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4535

agcatacctg catgcatgca ngcttcaact agtaaagcac tttaaccaact cgtgatagaa 60
tttgaaattg cccaaaataa cgggaagatg atttgggatt aattcatcga gccataatta 120
gctatctata agggcacaac ttaacaaaca cccaatcccc ctcaagtaaag aatgtggccc 180
catgatgctt atcaacaacc ttattcatgg attgttgggc acaaagcaaa tgagctttta 240
attgatgcat agccttgtcc ctgtcaaaca atactgacgt gatagaaccc actaatgtct 300
ctctggccaa aagcatagca caaaaggagg tgatcaacca tagacgacct cgaagggagt 360
cttctcgatg gctgaatgca aacaagtatt ttgtaccaat actctacca cggaagtcac 420
aaat 424

<210> 4536

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4536

acggaagctc tcgaganatt caaatgctca taacatttca cacggatgtc cgattcagat 60
gcataacgta tctagatgct caaaattgaa aaacagaagc tctcgagaaa ttcaaattgt 120
cataactttt aacatggatg tctgattccg aagcataaca tatcgtgacg ctcaaatgt 180
aataagagaa gctctcgaga aattcaaatt gtcataaatt ttcacacgga tgttcgattc 240
ggggataaaa tatgttgaga tgcttgaaat tgagagataa aagctctcgt gaaattccaa 300
tggtcataac ttttactcg gagttccgat tcaagacact tgaaattgac caacggaagc 360
tttt 364

<210> 4537

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4537

agctntgatg gtgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60
gaatgtatgt atacatgatt ntgatgatgt caaagaagaa tctaacaagg ctgcttcaaa 120

tgataagcat ttgcttcaag aataattcaa gattgcttca acaaacaag ccttgtttca 180
agattcacta aagaccaagc cttgccttaa aacaaagtgc tttcaagaca tgcaaggctc 240
tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga gaaatagctg 300
ttgaaaaatg ttttgaattt gaattttcaa catgtaatcg attaccatat gtctgtaatc 360
gattaccagc aacgaaactt tggaaattca aattcanaag tcatataccc ttcaaata 420
actgtgtaat cgata 435

<210> 4538
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4538

gacctcagtg tganaagtta tgaccacttt aattttccga gagcttccgt tgttcatttt 60
cgagggtctt tatatgtgat ggccttaat ctaacatccg tgtgaaaagt tatgaccatt 120
tgaatttctc aagagcttct gttgttcaat ttcgagcctc tcgacatatt atgcgcccga 180
atcggatata cgtgtgaaaa tttatggcca tttgaatttc tcgagagttt ctgatgcttt 240
attatgagcg tatcgatata ttataagcct gaatcggaca tccgtgtgaa aagttatgac 300
catttgaatt tctcaagagc ttccgttggt caatttcgag cgtctcgaca tattatgcgc 360
ccgactcgga atccgtgtga aacgtatgac catctaaatt tcgagagagt cttcgacgtt 420
taatttcgag cgtatcatat attataagcc t 451

<210> 4539
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4539

agcttatata tatcgatact ctoganatta ttcacggaa gctgtcgaga tattcaagtg 60
gccatgactc ttcacacgga tgtccgattc aggccgatag tatgttgaga cgctcgagat 120
tgaactacgt aagctcttga gatattcaca tgggcataac ttttcacact gatgtccgat 180
tcaggcttat actatatcga tacgctcgaa attgaacatc ggaaactctc gagaaattga 240

aatggtcata acttttcaca cggatgtcct attcggacgc ataacatgtc gcgaggctcg 300
 aaattgagca atggaagctc tcgagaaatt caaatgcgca taacttttca cacggatgtc 360
 cgactcaggc atataatata ttgatacgct cgaaattgaa catcggatac tctcgag 417

<210> 4540
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4540

tctatagaac gttcattcct aatntctctg caatngcatc acctctcaat gagatagtga 60
 agaagaatgt ggcatttacc tgcggtgaaa aacaagagca agcctttgct ttgctcacag 120
 aaaagcttac taaggcacct attctagctc ttctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagtttagag ctgttttggtt acaaggtggg caccctattg 240
 cttatgttag tgaaaaactt catggtgccca cccttaacta cccacctat gataaagagc 300
 tttatgcctt aataagagca cttcgaactt gggaacatta ccttgtttcc aaggaatttg 360
 tcattcataa tgatcatcaa tcacttaagt tcattagagg gaaaagcaag ttaaacaaaa 420
 ggcatgcaaa atgggtagag tacct 445

<210> 4541
 <211> 433
 <212> DNA
 <213> Glycine max
 <400> 4541

agctagctgc cacggagttt tccgactatg ctcttggtgtg gtggaacaag ctacaaaagg 60
 agagagcaag aatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggt agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caagggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300
 atatccgaga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcaciaag 360
 caatccaagt agagcaacaa ttaaaaagga aaggagtggc taagaggagt tttaccaact 420
 ttggttcctc tag 433

<210> 4542
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4542

nntgggactc tgagcttgag gagggtagca atgggtcaaca accaatgcca acaaggaggt 60
 gcagccattg cttggctcag aggacccccgc agtggagggc aggaccatta ggtccaaaga 120
 cactatgcaa tgcattgtga gtgaggtaca agtctggtag gttgctacca gagtataggc 180
 cagccaagag tcctactttt gttagctact tgcactccaa tccccacaag aaagtcattg 240
 agatgaggat ggctgttttc tccaccattt ctagttagca gtagtagtgg ttgttactta 300
 ttagaggtat atttctatgt aaaaaaaaaa aatcaaactt caaattttat gaacaaaaaa 360
 ctatttggca aacagagaga tactgttaag gggagagtgc ttaatgctat gatngattat 420
 aggcacattt attatatgac ttattat 447

<210> 4543
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4543

ggcagggtta aagtctcacg attgtcacgt gctcatgcaa caattgtag ttgtggctat 60
 acgagacatc ttgcaaaca aagtcagggt agccataact cgcttggtgct ttntcttcca 120
 tgctatatgt agcaaagtca ttgacccat gaagtttgat gagctggaaa atgaggccgc 180
 aattatactg tgccagttag agatgtattt tccccctact ttctttgaca tcatgattca 240
 cttgattgtg catctgggtca gagaaatcaa atgttggtgt cttgtttatc tacgggtggat 300
 gtacccgatt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcttct 360
 agaagcatct attgttgaga ggtacattac agaagaagcc attgaattnt gttcagaata 420
 cattga 426

<210> 4544
 <211> 427

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4544

agcttgagga tagagacttc ccaagctatt tatctctact tggatctatt aggaatgaag 60
 gctectaccc ttatttatac tactccacct ccacaatgaa tgggtggagat tacatgtatc 120
 ctaggggtgga gattaattct ctagaatgct ccacacattc taggagtctc tacactcttc 180
 tactcttttt catatccttc cataagggtc cagaagggtc cacacatctc tagaatattc 240
 cagagggttc cacattcttt cacaagcttc tagagagttt tacactactc tagagttctc 300
 caggacgttc tagaaaattc tacacttttc cagaaagctc caaaattttc tagaacctct 360
 cgaattaagg agggatccca acactttcca gcaaatggta ttcgaanagg ctctgtgcaa 420
 aaaatgc 427

<210> 4545
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4545

agcttgaaat tcanaataag aagctcctag catatccaaa cgacaataac tatttactcg 60
 gatgtccact tgagtcccg aatatatcga gagctccaa attcaaaacg gaagctcgta 120
 gcaaatgcaa accgcaataa cttttaacta agaagtccga ttgagtcccg taatatatcg 180
 agacgctcga aattgaaaac agaagtccg agcaaattca aacgagaata actatttact 240
 caggtgtccg actgagtcct ggaatatatc gagacactcc aaattgaaaa cggaagctct 300
 tatcaaattc aaacgacaat aacctttntc tcagatgttc gattgagtcc cgtaatatat 360
 cgagactctc caatttgaga acggaagccc ttatcaaatt caaaagacaa taactttnta 420
 ctcggatgtc cgattgagt 439

<210> 4546
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 4546

nttatccatg gcttcatatg gtgggtgagct tcttcttgac tcatcttctc cttgaagtgg 60
cgtctccaat catctttctt ccttctccat tccactgcca tgatcttcaa gaagcaaagg 120
actccattga tgaagaagat tcaaggccta cacaccctt gatggaagct tgcttgtaa 180
gcttctatgg aggttgatc tttgagctgc aatgaggtcc ctcaatggtg attttacacg 240
atggagatgc actggtagat aaaggagatg acgtgagagg aagcaccttc cactagggag 300
tatgccatgg aacaaagagc atgaccgcca tgaaagtg 338

<210> 4547

<211> 448

<212> DNA

<213> Glycine max

<400> 4547

tatccatatc acacacagtc gaggtagatt tacaattggc atcctcatca cttgtgtcac 60
attcttcatt gcattgcaca tccggttctt cttcaaact tcaccaccac catcatcatg 120
ggaaagtctt atcttcaaca ccactcacia tgagctcaat tccacggtcc ataagcttgg 180
ttctctggtc acgtttcttc cactcaagga tctccgttat gcacgtgcac ctcttgaagg 240
ccacacatgg ttcattgagtt ccatgtatga cacacatgaa gttggtgagg tccaatacca 300
gcaattccca tcagaaccat cacatggtaa gcttctatgt ctcaaaggat gcgacacgca 360
tgtcgggtca tggaactcct atgctttggc atggcctgag gcattgcctt ataacaccac 420
cttcatgaag gttaactttt gtgtcata 448

<210> 4548

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4548

agctngaaga ctttgtttca ggactttngc tttctctctt ttttgccatt agtgggctta 60
aaactaacct agggctcatc catggctcat acacctgggt aattcttatt atagtcattt 120
ttttggcctg ccttggtaaa gttgttgaa ccattttggg tgcattgttt tatgaaatgc 180
caatacatga aggagctgcc cttggtttac tcatgaacac aaaaggcctc gttgaaatgg 240

tcgtgcttaa tgttgggaag gaccagaagg tgctaatact ataatacaata atgttatatt 300
 atatccttct attatcttca atacataaag cattcaatac tttgtttaac aaatatgaag 360
 aaaattatat gaggagaatt atgctagtag ctcaatcaat tcctctctag atgagtgggt 420
 tatacatgtn gatcatttac 440

<210> 4549
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4549

gggcatgtca naaatatgca tgagggccaa actaggagaa attattgtat ggtctgggtat 60
 cactatggtc ctggccaatt ttctcgtgat atataaccaa gttttattaa cattttcttg 120
 taattgaaa aactcgggta cacatcatgt ggagattgat taggattcag gactaaagat 180
 atgaggtgga gtcacatcat acaataattt ctccgaaaat agagaaatgg aagaaacata 240
 ttgaggaaaa aataagttat atttataaaa aaatattctt taaattgtaa aatggaaaacc 300
 tttatttggg ggctgactga tttgtaggtc acactttgga gcagccttct caggcatggc 360
 atatggctnt ttaactagtc caatacttca gttgaatgat tcatcatcag gaactgggtca 420
 agaaggactt aaacttggtta gaaaatatgg tgattctt 458

<210> 4550
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4550

ctactcttgt tgactgtttt caagaaaagg tcttcttggg tgcaaacact aaacacaagg 60
 gaccaatgtt ccttgggttc attgcaagaa gcaggattta cttcttgggt gatcactgga 120
 cacaaaagac caacatcttt tgggttcatt gcaagaagtg ggtacaactt cttgggttgtt 180
 atcactggac acaagggacc aacgttcctt gtgggttcatt gcaagaagtg agaataactt 240
 cttgggttgta atcattgaac acaaaggagg ggattccttt gtgggttcatt gcttgtcaag 300
 gattttacaa ggatagtgga aatctcaagc acgttgccctt gggattggac gtacgcacgg 360

gttgtgtccg aaccaatata aatccgngtt tgcattctct cttccctta

409

<210> 4551

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4551

agctnngtga tggtcataag gtgataacaa atgtagtgtg tataaggggtc aatatgaaga 60

tggngggggga ttgaagtgat tgtggatgcg ttggtgttgg agctaggggg aatggatatg 120

gagttaggag ttgcctggtt aagcactctt gggaaggtga ttatggattg gaaggccatg 180

actatgcaat tttcttatga aaatgagttg gtgaaattgc aaggtcaagg cagtaagggtg 240

gtcagacaat gttatttgaa ctctatctt gaggatactc atagcagaac tgagctgggt 300

tgggtgggtggg ttcacttaca gtcaatggaa gcaaccaagt cagtgggtcc caaaggctta 360

aaacctatac tagaagaatt ccaggaagtg tttggaaaca acattcagct acctcctgag 420

aggagtcagg tgcacggat ta 442

<210> 4552

<211> 452

<212> DNA

<213> Glycine max

<400> 4552

acctttcatc atggcatggt gacataagct caatagttga gggtaaaatt tgtcaaaaaa 60

gaaataaaat tcgacaaaaa tataagagtt tgagataaaa tttgtcaaatt aaataatatt 120

atgatcttat taaaatgttt aatgggtgctt aattttaaaa attttctaag ttttctacca 180

taggagctct ttttttcacc ccatccatgt tgtcacatgt gggtgaaaag aggaaagaga 240

gggatgggat ttctcttgct ttaggcataa cgggccaag tgggaggccc acacgaaggg 300

ttattagctc agtagtaaag tgtgtccttg ataatttgtt cggcttggag tggagtgaga 360

catgtcattg aatagcaagg agatagccac ttcgttatga aattagaaaa gttaagagcc 420

cttcattcat ttggataatt tcgaatgaag at 452

<210> 4553

<211> 397
 <212> DNA
 <213> Glycine max

<400> 4553

agcttcaaga aaaagatggc ctcagcaaac tctttatttc cagaagggaa ttctatcaat 60
 agacctccaa tctttaatgg agaggggttac cattactgga aaacccgaat gcaaattttt 120
 attgaggcaa tagatctaaa tatttgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtggaaa gagtttcaat agatggtagt tcatcaagtg aaagaataac tatagaaaaa 240
 cctagagata gatggtctga agaggataga aaacgagtac aatacaactt aaaagccaaa 300
 aatataataa catctgccct gggaatggat gaatatttca gggtttcaaa ttgtaagagt 360
 gctaaggaaa tgtggaacac tcttcgatta acacatg 397

<210> 4554
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4554

agctgggtcc ncaaggctnt atgaagactc ttctcaaaat ctagaggtaa atctgggatc 60
 tctatcagaa actatgctag aaggaacacc gtgtagtcta actatctcac tgacgtacaa 120
 gctagtcaac ctctctaaag aatatctgat gtttattggg atgaagtgag cagatttggt 180
 caacctgtct acaataaccc aaatggaatc taaacctttg ggggtcctag gtaacccccc 240
 tacgaaatcc atggagatgc tatcccactt ccactcaggt atctctaaag gttgcaactt 300
 ccctgaaggc ttctggtggt ctatcttagc tttctgacac actaggcatg caaggacaaa 360
 ctcattaact tctttcttca gaccoggcca ccaaaacatc tgcctaaggt cctggtacat 420
 cttagtcgct cccgggt 437

<210> 4555
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4555

tgtatggtag aggaatagaa gaatgggaat ctactttgga tcatgtatga aaaaaatcct 60
 cctagagaca tacacatggc acttaaaata tcctttgatg ctctgggtta cctcgagaag 120
 gaggtttttc tagacattgc atgtttcttc aatggatttg aattagcaga gatcgagcat 180
 atacttggtg cacatcacgg ttgttggttg aaatttcata ttggagcatt ggtggaaaaa 240
 tctcttataa tgattgacga gcatggccgt gttcagatgc acgatttgat acaacaaatg 300
 ggtagagaaa ttgttcgaca ggaatcaccg gagcaccctg gcaaacgcag taggttatgg 360
 tctactgagg atatagttca tgttttagaa gataacacgg tgagtaagac tgagatcaat 420
 ggtttgatct tcattnttag cattga 446

<210> 4556
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 4556

agctaggacc attctaaacc tttgagtttc tgccgccaat accgagcgtg tagatgagtc 60
 atgtccccga atcggacacc tgtgtgaaaa gctatgacca ttcgattttc tcgagagctt 120
 ccgttgatca atttcgagcg tctcgagtta ttatgacccc gaatcggaca tccgtgcgaa 180
 aacgtacgac catgcgactt tctcgagagc tgccgctagg c 221

<210> 4557
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4557

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
 tctattttct tttttactca agttatgaat tcccttaaag acaatcttct taaatattaa 180
 ttcaaacgaa gcaacttgaa tgtgaatata aagcaataat aaataaaaga gattaaggga 240
 agagaaaatg caaactcagt tttatactgg ttgggccaca cccttggtgcc tacgtccagt 300
 cctcaagcaa cccgcttgag agttccacta acttgtaa at tccttntaca agttctaaac 360
 acacaangac aatccttcct ttgtgttttag agatccttta caacaagaga ctcacagtct 420

cttaatc

427

<210> 4558
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4558

gctttgaatg cactattcaa tggagttgac aagaacatct tcagactgat caacacttgc 60
acagtggcca aagatgcatg ggagatcctg aaaatcactc atgaaggaac ctncaaagtg 120
aagatttcca gattgcaact cttggctaca aaattcgaaa atctgaagat gaaggaggaa 180
gagtgtattc atgacttcca catgaacatt cttgaaattg ccaatgcctg cactgccttg 240
ggagagagga taacagatga aaagctggtg agaaagatcc tcagatcctt gcctaagaga 300
tttgacatga aagtcactgc aatagaggag gcccaagaca tttgcaacat gagagtagat 360
gaactcattg gttctcttca aacctttgag ctangactct cggatagggc tgaaaagaag 420
agcaagaatc t 431

<210> 4559
<211> 420
<212> DNA
<213> Glycine max

<400> 4559

ggatccttac actgcgctca gctaactcat tcagctctat ttacgactaa cagcatcaga 60
aaattatgcg ttgattgcta agatcacatt catttcgagc gtctcgatat attacgggac 120
tcaatcagac atccgagtaa aaagttattg tcggttgaat tggctccgag cttcaacatt 180
ccatttcgag cgtctcgata tgttacgaga ctcaatcaga catccgagta aaaagctatt 240
gtcgtttgaa tttgctcaga gattcaacat tgaatttcga gggctctgat atcttacggg 300
actcaatcag acatcccagt gaatagttat tgctggttga attggctcag agcatcaaca 360
ttcaatttcg agggctctga tatattacgg gactcaatca gacatccgag taaaaattta 420

<210> 4560
<211> 438
<212> DNA

<213> Glycine max

<400> 4560

tcaacctaga ggagacgaac cattccaagt gttggagaag atcaacgaca atgcctacaa 60
gattgacttg cctagtgagt ataatgtaag tgccactttc aatgtgtctg atctatctct 120
ttttgatgca gatggaggag ccttggattt gaggacaaat ccttttcaag gagggagtga 180
tgaggacata accaagggca aggaccatga agcacttgaa ggtcccatga ccagaggcag 240
acttaaacia gcccaacaca tcatagagac aaggctggtc atttgtatag ctgtcattga 300
tgatgattga aggcccaagt ggagaaagat gaaggccag aggcagaggc actaccaaga 360
ctactaattg ttgctgaagg cccaaactaa cttgaaggcc caagttaa atgttcttag 420
ttataattta attttatt 438

<210> 4561

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4561

caagctcgat cctgaaacia ctttatgatt atagacttgn tgcttatgag tacatggcta 60
atgggttcatt ggataaatgg atattcaaca agaaciaaaga ggaatttcag ttggattggg 120
atacaaggta taacatagca cttggaatag caaaggact tgcttatcta catgaagatt 180
gtgactcana cattattcat tgtgacatta aaccagaaaa cgtgctccta gatgataatt 240
tcagggttaa ggtttcta at tttggtttgg ctaagctcat gaaacgtgaa caagacatg 300
ttttcacaac actt 314

<210> 4562

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4562

agctntacat cttatctgtt ttattgtttc acgggtttta agtcttggat attcaacacc 60
tttcttgtea cttggatcat cttacatgta cccttcctg gctgctgcta acgctgctgt 120

gatttctgct ggtgaagaaa ttgcgacgca gggattgcca ttggggattt gtcccctggt 180
 ttgtttatatt actggttcac gaaatggtat ggtgttagga aatgatactc tatttttata 240
 aatgctatcc tttcttaagc ggacatgaaa ttaaactaat ccattcatga accaatgttt 300
 ctgatatccc atttattttt gcctaataaa tgtttaaaag tgtcacttgt gctgactttt 360
 gaatccttca tctcctgtag tttgctctgg tgcacaggag atatttaagc ttcttcctca 420
 tacntctgt gatccatcta aactacg 447

<210> 4563
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4563

agcttgaagg anaactggat gcattgggta acttggtaac ccagctgacc ttgaataaaa 60
 aatctgtacc tatcgcaagg gtttgoggct tgtgctctc tgctgaccac catacagacc 120
 tttgcccttt catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180
 ttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagagc aattatgacc 240
 tttccagcaa cagatacaac cctggatgga ggaatcacc tacccttaga tgggtccagcc 300
 ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc taagcagacc 360
 atacattcct tcacaatcca acaacagcaa caaccccaga aac 403

<210> 4564
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4564

cagcttgta agctacagct tatatccaat cttgagcaat ctatgcaact cagtagggac 60
 ctcaccaacc ataagcacag acacatagtt gatgtcctac acaggaacac ggacctgttt 120
 gcttgatagc cttctgacat gtagggaatc caccccaaca ttatctgcca caagctcatc 180
 atctgtcccc aggccaaact ggtatcacia tataagagga agatgggaga agaattgatac 240
 aaatcggtta gagaagaggt ggacaagctc ctcaatgcca acttcatcag agaagccaga 300

tattctacct agctcgccaa tgctgctcatg gtcaaaaagg ctaatgaaaa atggcaaatg 360
 tgaatcaatt atactggtct gaatagggcg tgcncacag atgcatacct tctgccaac 420
 atcgatagac tagtcaatgg agtgtccgag ttccaagtac t 461

<210> 4565
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4565

tgcaactcaat gtagatgtga cccagatgaa tctccgaagg acttttataa tgtcacaagg 60
 gatatacata accaaaaatt gactacaaat tataaaggag gtctattntg ttgtcaggac 120
 aacttacaat gcaagcaaat agaggggttt caaggttcaa ggagaatggt ttccttaaga 180
 tacaaaatta gttgggttga ttggaacata taccaaatac cagttaagggt ttacatactt 240
 gattccaccg acaaagttag gtcaaatggt tccaaaatac ttcattgattg tctggtagat 300
 aagttnttca agacagtact ctatgataaa acaatatact tctcaatctt attagagtga 360
 gtgaacaaaa gtaaatctta attccttgca ggcagagtat acc 403

<210> 4566
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4566

agcttgtaat cgattacaca tatactgtaa tctattacca gagaaaattn tcagaanaat 60
 attctcaaca gtcacatggt ttacttggt tcttgaatgg ccatcaaagg cttatatata 120
 tgtgacttga gacacgaatt tgctaagagt ttttcagaac aaaaggggtct tatcctctta 180
 aaaagcaaaa tcgttttatc ctcttacaaa ttccttgcc aaaacacttg tgattcaata 240
 aggatctatt tgagtgtca aattgttcaa tctatctctt tcaagggaga ttacttcttg 300
 tcttcttctt tattctgaaa aaaggattaa gagaccgacg gtctcttatt gtaaagaaat 360
 ctgaacacaa aggaagggtt gtccttggtt ggccacatct tgtatacgct ttaca 415

<210> 4567

<211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4567

agcttggtc acacctatgt ctctntaaca ttactccaa tgcatttaga ttagctaaaa 60
 gactgaactc atgagtcacg aattacttta agatggataa tgcaaccttt ctattgaaca 120
 ctcgatgctc ggcgcacgag aagacgcaac atgtggttct gtcattgcca atccagacct 180
 aattgtccca tcaagcctag gaattagcca ttctttagt tggtctttat ctccatagcg 240
 cagtaatacc taaacgtaac gaactgctac gaaattagac aaaaatgcac catagataga 300
 gcgcacgcta aatatgatca acccacaaga gaatccaatt aagttcagtc agttattgat 360
 caaccaagca aatccatgag ttcatctta cctccatatt acctggtgca cgtgcaccac 420
 aactaaacac tcgtggagcc caaag 445

<210> 4568
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4568

agctntgaga gggagtttgg gacttaccga gtactataga agattcattt gcaactatgg 60
 acaaatagct cgacccttag ctgatttatt gaagaaggaa aatttcaagt ggactactaa 120
 aagtattgag gactttaccc agttgcagca ggctgtcacc acagctcctg tactatcaat 180
 gccaaatttc tcaaaaaaaaa ttccatata atgtgatgca tccggaaagg gagtaggggc 240
 tgtgttaact caagaaaaaa ggcctattgc ttatttcagc aaggctctgg cagattcaac 300
 actcaactaa tcaatntatg aaaaggaatt gatgacccta gttctagcaa ttcaacactg 360
 gaggccttat ctcttacgac agacatttac tgnngttact gatcagaaga gtctaaggta 420
 cctcttgag caaaaaataa ca 442

<210> 4569
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4569

agcttgaatc atgcagccac tctgctcttc aatccactgc ttaaattctcc aaatatacac 60
ttgcgacctc tgacttagac ttgagaaaac aaatccagcc cattctggtg aaatcatcta 120
taaagatgat gtaatatatta ctctctttaa gcgaagcagt cctttgacgt tcgaccaaatt 180
ctgtgtgaat caaatgtagc ttctctgttg ctcttcacgt tgattgtttg aagggtaatc 240
ttgcttgctt accatattga catgcttcac aacttgtaa ttataatct aagtgagga 300
agccatgaac caactgcttt cgttgcatgt tcagcacaat tgcattgatga aaatgacctc 360
accttttggtg tcaagcctct gtactgttta cagtacttgg ataggctgct tgctctctct 420
ttagtgggtc aaatg 435

<210> 4570
<211> 215
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4570

cgagcgtctt catatattac aggactcaat cagacatccg agtaaaacgt tattggtggt 60
tgaatgtgct caaagcttca aaattcactt tcgagcgtct ngatatatta cgggactcaa 120
ttagacatcc gagtaaaaag ttattggtcg tggaattggc tcagagcttc aatattcaat 180
tacgagtgtc tcgatatatt acgggactca atcag 215

<210> 4571
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4571

agctntaggc aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgtc 60
atatatcaag acgctcgaaa ttgaatgttg aacctatgag ccaattcaaa cgacaataac 120
tatttaatcg gatgtctgat tgagtcccg aatatatcga gacgctcgaa attgaatgtt 180
gaagcttttag gcaaattcaa acgacaataa ctttctactc ggatgtctaa ttgagtcccg 240
taatatatcg agacgctcga aattgaatgt tgaacctatg agccaattca aacgacaata 300

actttctact cggatgtctg attgagtcce ataatatatc gagacgctcg aaattgaatg 360
 ttgaacctct gagccaattc aaacgacaat aactctttac tcggatgtcc gattcagtgg 420
 tgtaatatat c 431

<210> 4572
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 4572

agcttcaaca ttcaatttcg agcgtctcga tatattacgg tacacaatca aacatccgag 60
 aaaaaagtta ttgtcgtttg aatatgctca gaggttcaac attcaatttc gagcgtcttg 120
 atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaaatggctc 180
 agaggttcaa caatcaattt cgagcgtctc gttatattac gggactcaat cagacatccg 240
 agtaaaaagt cattgtcggt tgaattggct ctgagattca acattcaatt tcgagcgtat 300
 cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaactagc 360
 tcagagcttc aacattcaat ttcgagcgtc tcgatatatt acgggactca atcagacatc 420
 cgagtaaaag ttatt 435

<210> 4573
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 4573

agctttcttag tctcacctga tgaagatgaa ttcgtggcta cttcatgcac tcctctaagt 60
 acaataacat catttctggc actaaattgc tgggagttgg aagccatctt ctcaattaa 120
 tttctagcta cagcaggggt catgtcttca aaggctccac cactggcagc atctatcata 180
 cttctttcca tggtattgag tccttcataa aaatattgga ggagaagctg ctcagaaatc 240
 tgggtggaag gacaactggc acatagttta ttgaatctct ccagtatctc atataagctc 300
 tctccactga gttgccta atctgaaata tcttttctga tggcgtgggt cctagaagca 360
 gggaaatgtt tttctaagaa tactctcttg aagtcacccc agctcgtgat ggaccttgga 420
 gcaaggtaat ataaccagtc c 441

<210> 4574
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4574

agcttaataa agccacaaga aaagatcact actcatttcc cttcatggat caaatgcttg 60
 agagacttgc agggcaatct ttctactatt ttttggatgg ctactcaggt tacaatcaga 120
 ttgcagtaga tcctcgagac caagaaaaga cagctttcac atgtcccttt ggtgtttttg 180
 cttatcgccg catgccattc gggttatgta atgcacctgc tattttccaa agatgtatga 240
 tggctatttt tgctgacatg gtagaaaaat gtattgaagt cttcatggat gattttttga 300
 tttttggtgc atcttttgag aactgtttag cacatctaga gaaagtgtta caacgctgtg 360
 aagaatccaa tctggtgctt aactgggaaa aatgtcac 398

<210> 4575
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 4575

agctactggg tcaacttgat tatttcttga ggctaaaaat taaatatctt cctaacagat 60
 ctatcaatga ctcaacaac gtatgtgctg gatttgctat cataaaacat aaatggctga 120
 ggcacattct atctgcactc ctatgggtac caactgcaaa ttatctaaac atggggctga 180
 tctatctcat gatccaacac tctatatatc agtgggtgcc ttgcagtatg ctatccttac 240
 tagaccagaa atcagctttg ctgttaataa cgattgtcag aatatgggta atctcttgga 300
 ttctcactac gctgtggata aaacaatgtt gagatatctc aagggtacac ttggtcatgg 360
 tctacttatt caacacgctc atgtttcaaa acctatcgca ctttatgctt tct 413

<210> 4576
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 4576

agcattgggc cgcacagca acagtatatt ggtgtctgaa tgctatgaaa tgagcagcct 60

tgctcagcct atcaacaaca acaaagatta cttgtttgcc caaagaattg ggaagaccct 120
 ctatgaagtc catgggaatg tgcttccaaa tcaggatcat ggactacaag tgggtgtagc 180
 aaccacggg aagcagaatt atcatactta cattgctggc aggtagtaca ttgatggaca 240
 aaccttttaa cgaccttaga taaccctttc tagtacacca atgtcttgac tc 292

<210> 4577
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 4577

cctatgttgt tgtggatgat ttctccagat tcacctgggt caactttatc agagagaaat 60
 cagatacctt tgaagtattc aaagagttga gtctaagact tcaaagagaa aaagactgtg 120
 tcatcaagag aatcaggagt gaccatggca gagagtttga aaacagcaag tttactgaat 180
 tctgcacatc tgaaggcatc actcatgagt tctctgcagc cattacacca caacaaaatg 240

<210> 4578
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4578

agctntctnc actaagttgc ctgatgcctg aaatgtcttt tctgatggca gtggtcctag 60
 atgcagggaa gaatttctcc aagaacaccc tcttaaggte atcccagctg aaaatggacc 120
 tgcgagcaag gtaagatagc caatcttttg ccaactccctc cagagaatga ggaaaagcct 180
 ttagaaagat atgatcttct tggacattat ggggcttcat ggtggaacaa acaatatgga 240
 aatccttaag attcttatga ggatcttcac ctgtaagacc atgaaacttg cgcagcaaat 300
 gtattagtcc agtcttgaga tcatatggaa caccctcatc aggatattga atgtacaagc 360
 tttcataagt gaaatcagggt gcagccatct ccctaagagt cctctcgca ggtggagggt 420
 gagtcatgtt ctcatga 437

<210> 4579
 <211> 315
 <212> DNA

<213> Glycine max

<400> 4579

agcttaagga gcttgtttta taccatacaa gcctttgttt agtttgaaaa catgataagc 60
gtagatagaa ctctcaaaact caacggttgt tccacatata cctcttgctt gattagtcta 120
tctaggaaca cactttctac gtccatttaa tgcagcatca taccgtgatg ggcaacaaag 180
gacaataaaa tgtgtatttc ctctatacaa ccaataggag ccaaagtttt agtataatag 240
ataccatctt gttgcgagta accttcggct acaagcttag ccttggtcct cccaacctta 300
catgtttcat caaac 315

<210> 4580

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4580

caccgatcgt gtgatattgg atgcaattgc tctcatatgc ccaatttaac caagtcttga 60
cgacacttca aaccattctt tgtcttgctt ttaatggtaa gaatgggtccc aattgaacta 120
tcacagacat ttttctgcac atgcatcaca tcaatacaat gtctaacatc aagattggac 180
tagtaaggaa gatcaaagaa tagttacctt ttcttcata tgtttggctc agacgatgct 240
ntctttnggg tctgtccaaa gacagctgtg atgtcattca cccgatcata aacttatttt 300
ccttgcaatg gatttggcac agtctcattt tctctg 335

<210> 4581

<211> 288

<212> DNA

<213> Glycine max

<400> 4581

agacacactg ctggcttcta ctgtagcta taacagatac cgagatctat tctaaagata 60
cacataatta tgactcatca ttataaact cccctcaag ctggagcata taaatcatat 120
gtccaagct tggaacatat aacctgaatc ctatgcccc ttaagggttt agtcaaaata 180
tctgctggct gatcactgga gttaatgaac tcagtgacaa tatctttaga cagtgatttc 240
tcccgaatga agtgacaatc aatctcaatg ggtttcgttc tctcatgg 288

<210> 4582
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4582

agcttctctg ttcttggtta attattatat tttgttttta atccttgat ttggctatgg 60
 ttttatgaca tttgaatact tagtatttct ttttaatactt gcttactatg actgaacatg 120
 atgattttat tgacttgctc ttgggttgctt atgattatgt gttttaaact taattacttt 180
 aataatatat gacttggtgt atgtacttac atttgatatt gagctctatg ttttttattt 240
 atttattcat atatgctttt ttogaatatt atgaatgact ttctggatta tatgacattc 300
 tatgaagtat tatctttcta agattgatga ataggtaagc catcttgctt gattggctct 360
 attctcgca tttggnttat attatgacat atgaa 395

<210> 4583
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4583

agctttcgag aaattcaaag ggtcataagt tttcacacga atgttcgatt cggtgacata 60
 actcatctag acgctgaaa ttgaacaacg gaagctctcg agaaattcga atgctcataa 120
 gttttcacac cgatgtccga ttcggggaca taatatatcg agacgctcga aattgaacaa 180
 cggaagctct cgagaaattc gaatggtcac cacatttcac tcggatgccg gattcgggaa 240
 cataatatat cgagacgctc gaaattgaac aacggaagct ctcgagaaat tcgaatggtc 300
 ataagctttc actcggatgt tcgattcggg gacataactt atctagacgc tcgaaattga 360
 acaacggaag ctctcgagaa attcgaatgg ccatacgttt tcacacagat gtccgattct 420
 gggacataa 429

<210> 4584
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4584

atgaattatc cacattggca tgctgagagg ctttgcctt cccaatatgt cctggaaaca 60
tggcaatacc gtgccctttg tcctngaaa gagttgcaga cctgcaagga acattaccat 120
gcaattctgt ggagggtgca acattaagat tgctgggctt ggctccatat agtgatgcag 180
aacctgctgc agctggccaa aatggattca tcctcgcat tncgtggtga tacaaaatat 240
tgcgagcaat gtagcagtgg gtggcacacc tttt 274

<210> 4585
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4585

agcttcctat acgcttactc cagatataac cagatcagga tgcattgctt agacgaggag 60
aaaacaacat ttatcattga agatgccaac ttttgctaca gggtcattgcc tttcagtcta 120
aaaaatacag gtgctacata ccaatgacta atggaccgag tctttaaata gcagatcggg 180
cgaaacgtca acgtatgtgg cggacctgga agaagtcttt ggggaactct gcanatatga 240
catgcgcttc aaccttgaaa aatatacttt tagggtaggc gaaggcaagt tcctcggctt 300
catgatcact cactggggga ttgaagccaa ccccgacaaa tgcactacca tactggagat 360
gtgtagccca accaacgtcc aagaagnca gaagttgaat ggtagggcta gcattcctg 418

<210> 4586
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4586

ttatgttacc ttgatatgct aaaattgtna gaaggggaaa cacgttccat gtcggccaag 60
acttggggga gcaattgggc ctcatcttg tgatcatgtt cctcacgttt aattctgtct 120
tatgttgtgt tttgcatgat acatgatatg ccttactttt ttcatttttt attttgggat 180
gtctcttacg agataaagga atttttagtc ctggtgaaga acctttgcca attgatccct 240
ggctcgtggt tcctgacaag agcagatatg tcgatcaaca aaccttgaag atgcaagaaa 300

atccagagga gtactaatac aagattgatc ttaaaaacac ttttaagtca cttg 354

<210> 4587
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 4587

agcttcgaca tcgccaccta gtcattctga tgggtttctg tgatgaacat tcacagatgg 60
 ttcttgtgta tgagcacatg gctaattggc ctttctgttc tcacctctat ggctccaacc 120
 ttctctctttt gtcattggaa aagaggcttg aaatatgcat tgggtgctgct cgtggcttgc 180
 actatctcca cactgatgca actcaaaata ttacacaccc tgatgtgaaa acaacaaacg 240
 tcctgttaca tgagaactat gttgccaacg cttctgactt cggtttgtca aaagctgtcc 300
 cac 303

<210> 4588
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 4588

agcttagaaa cttgctatta ttaattgtct aattaatc taacatcctc ccttaattgg 60
 acaattcttc tgcacaccaa gtcttgctcg caatcttcaa aaatcttcaa atttgagaga 120
 cttggtgaaa atatctgcaa cttgatcttg agtcttcaca tgagtcaatt ctactacttt 180
 cttggcaatg cactctctaa tgaaatgata cttgtatct atatgcttac ttcgttcatt 240
 gaacaccaga ttcttggcaa gctcttgctg agatctatta tcaacataga tctttgtgct 300
 ttcttctgca aacaagtga gttccttcaa caatcttctt agccaaatgg catgacatgt 360
 gcaagaagtt gcagctatat actcggcttc acaagtagaa agtgtcacia tgacttgctt 420
 cttagaactc catgtaaaaa cacaatcacc 450

<210> 4589
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4589

tgcaagctnt gatagtgtcg agaagagatc acaagtttgt catcatataa aagggggaga 60
atgtaaattgt atgtatacat gattctgatg atgtcaaaag aagaaccaa caagggtcat 120
ttgcttcaag attaatacaa gattgcttca acaagcaaag ccttgcttca agatttactt 180
aagatcaagc cttgccttaa aacaaagtgc ttttaagcca ttcaaggctc tggaatcga 240
ttaccaggta gtataatcga ttaccataag acagggttga gaaatagctg ttgaaaagga 300
ttttgaattt gaattttcaa catgtaatcg attaccatat gtctgtaatc gattaccaac 360
aacgaaactt ttgaaattca aattcaaaag tcatgaccct tcaaattata actgtgtaat 420
cgattacanc aaacattgta atcgattacc 450

<210> 4590

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4590

tgcaagctta tccctagagg g gatggacct tttaggttnt ggagaggatc aataacaatg 60
cctatagggtt ggacctccca gaagagtatg gagtcagcac cacttttaac atttctgatt 120
taactccttt tgcagggtgga gctgatattc atgaggagga actaacagat ttgagggtcaa 180
atcctcttca aggggaaggg gatgatgcaa tctcctctat gaagggacca atcactagaa 240
ccatgagcaa gagggtccaa gaagattggg ctatagctgc tgaagaaggc cctacggttc 300
tcatgaacct tagggtagat ntttgagccc atgggccaag gttgggtcca attatctttg 360
tacetattag actangatgt cattatatatt ggtcctcgta tatagggtc catattg 417

<210> 4591

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4591

agctntgatg gtgtcaagaa gaaatcacat gtntgtcatc atcaaaaagg gggagaatgt 60
gaatgtatgt atacatgant ttgatgatgt caaagaagaa tctaacaagg ctgcttcaaa 120

tgataagcat ttgcttcaag aataattcaa gaatgcttca acaaacaag acttgtttca 180
agattcacta aagaccaagc cttgccttaa aacaaagtgc tttcaagaca tgcaaggctc 240
tggtaatcga ttatcaggaa gtgtaatcga ttaccagaaa acagggttga gaaatagctg 300
ttgaaaaagg ttttgaatct gaattttcaa catgtaatcg attaccatat gtttgtaatc 360
gattaccagc aacgaaactt tggaaattca aattcacaag tcataaccct tcaaattata 420
actgtgtaat cgattacaca aacattgtaa tcgatta 457

<210> 4592
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4592

gcttgcttct acaagggtct cgtctattcc aaagtatccc atgagccac cctcatgggt 60
ctctctcaca agtaatttcc taatggatcc ttgaggtatg caaagctntc cctctttgaa 120
caaatactcc atctccaaat agaatccatc ttaggccttt tccccacaac tctcgtaatg 180
ggagagaaat gttcatctaa agcatacaag tccctaatat tatcaaattc taaaatttga 240
gctcctacgg agcaaaacaa tgtgtatctc ctaaattagg catcagctac cacatttgat 300
cttccctttc tgtatttgat aacatatgga aatttctcta ggtactctac ccatattgca 360
taccatttgt ttaacttgct ttgcccttca atgtacttaa ctgattgatg atcactacaa 420
atgacaaatt ccttggaag 439

<210> 4593
<211> 446
<212> DNA
<213> Glycine max

<400> 4593

agcttagcca gatagaatgt caaagatgga cgatacttta acacaattta tgcaagtatc 60
cagcacagac cagaagaaga ctgatgcac tattaaaaat ctagaagttc aagtaggaca 120
actggcaaaa taactatccg aacaaggaag tggatctttc tcagcaacca cacagggtcaa 180
cttaaaggaa cattgtaatt taattacaac aagggtgggg actatgggtg gtttgaagga 240
taatgatgaa aaaagaataa aaaaagagtt gaaaaagaca acgagaaaaa tgatgaagtg 300

atgactagtg aaaaagtgga agacaaagtg gtaagtgaag aagagaagaa gaaatcaa 360
gaacaaacca gtaataaagg taaagctata gtaaaccatc caccaattga gcatcttct 420
tatccgcaag ctctgtcaaa gaaaga 446

<210> 4594
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4594

agcttattgg tacagatggc acaatatctt gagtagatga agtatgactt gaacaagctt 60
aaaataagga aacttgaacc cattaaagac aacatcttta gatatatata tctttcctat 120
aggtgaaaga cacttaaadc ctttgtgaga agtagaatat ccaagtaaga cacgctcatg 180
agaccgaaat tctagtttct gactattgta gggctttaag aaaggatagc atgaacatcc 240
aaatgatttt aagaaattat aatcaagggt atgtttaaac atagtagtaa aaggaacttc 300
aaaatttaag gatgaagtgg caacctatta atgagaaaaa caattgttgt aaattcaa 360
tccttaaatt tgagtggag ggaggcctgt ttgagaagag taagtcccaa ttctggaatg 420
tgtctatgtt agaattctat tacaccactt taatgggtgag tatg 464

<210> 4595
<211> 455
<212> DNA
<213> Glycine max
<400> 4595

agcttattgg tacagatggc acaatatctt gagtagatga agaagactt gaaaaagctt 60
aaaataagga aacttgaacc cattaaagac aacatcttta gatatatata tctttcctat 120
aggtgaaaga cacttaaadc ctttgtgaga agtagaatat ccaagtaaga cacgctcatg 180
agaccgaaat tctagttttt gactattgta gggctttaag aaaggatagc atgaacatcc 240
aaatgatttt aagaaattat aatcaagggt atgtttaaac atagtagtaa aaggaacttc 300
aaaatttaag gatgaagtgg caacctatta atgagaaaaa caattgttgt aaattcaa 360
tccttaaatt tgagtggag ggaggcctgt ttgagaagag taagtcccaa ttctgtaatg 420

tgtctatggtt agaattctat tacaccactt taatg

455

<210> 4596
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4596

gggatcctta cgtcacctgc ggcattgcaag ctgaaatgaa cacggaagct ctcagatata 60
tagtggcata aattncacac agatgtccga ttcggggaaa taatatatcg agacgcacga 120
aattgaacaa cggaagctct cgagaaatnt gaatgggtcat aacatctcac tcggatgttc 180
gatccgggga cataatttat cgagacgctc gaaattgaac aaccgaagct ctcgacaaat 240
tagaatggtc gtaacttttc acgcgaatgt tcgattcggg gacataactc atctagacgc 300
tcgaaatcga acaacggaag ctctcgagaa atctgaatgg tcataagttc tcacacggat 360
gtccgattcg ggaacataat atatcaagac actcgaaatt gacaacggaa gctctcgaga 420
aaatcgaatg gtcataacgt ttcacacaga tgtccgattc tgggacat 468

<210> 4597
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4597

agcttccaaa caaaaanttt catgtaggtg gaccttcttt tagtaattct gacttaccgc 60
agcctcctat ccctattcca ttcccaccta gagcaatgcc aaacaaaaaa atggaagaag 120
tggaagaaagga gatcttggag accttcagaa nagtagaggt gaacatagct ctgctagatg 180
ccatcaagca gattccaaga tatgtgaagt ttctaaagga gttgtgtacc cacaaaagga 240
agttcaaggg caatgaaagg attagcatgg gtagaaatgt gtcagcattg ataggtaaata 300
atgttctctca cattcctgag aaatgtaagg acccaggtac tttctntata ccttgcatta 360
ttgggaacaa taaatttgag aatccatgct agatctanga gcatcagtta gtgtcaatcc 420
ttttgtcaat ttcaattctt tatctcttgg 450

<210> 4598

<211> 399
 <212> DNA
 <213> Glycine max

<400> 4598

agcttcataa gagagtcaaa aaatctaatt gagatgagaa ataaaagcta tgctaaacaa 60
 gccacaaaag ggagaaagaa ggtcgtcttt gaaccagag attgggtttg ggtgcacatg 120
 agaaaagaaa gatttccgga acaaaggaaa tcaaagcttc aaccaagggg agatggacca 180
 tttcaagtgc ttgaaagaat caatgacgat gcttacaag ttgagctgcc cggtagtat 240
 aatgttagtt ccaccttcaa tgtctctgac ttatctcttt ttgatgcaga tggagaatct 300
 gattagagga caaatccttc tcaagaggga gagaatgatg aggacatgac ctagagcaag 360
 ggcaagatc cacttgaagg acttggagga cctatgaca 399

<210> 4599
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 4599

agcttcgtcc tttgtacgaa gtaagtagag atacatatat cgtgaataat catctataaa 60
 ggtgataaag tattttggac tacttgcac catatctgga caacaaatat ctgtatgtat 120
 gatttctaata aggtttgagc tcctctttgc atcgttttta gacttgtag tttgcttacc 180
 cttaatgcaa ttcacacaag tgtcgaaatc agcaaaatcc aaagtactaa gtactccttc 240
 atttaccat ctcttaattc tctcgataga gatgtgtcct aatctatggt gccacaacat 300
 agaggattcc tcattcacia cacattgttt aaccctggca gtaaaatgca tagaattata 360
 agaagcatca ttttgcaatt caatat 386

<210> 4600
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4600

agcttataag ccacaagtcc tatcttttgc acatattgaa aaggagcgta aaatctttta 60
 gccaatattgg aatattgact tccagtggcc gttgactggt gttgaggtcg tagcttgacc 120

aagacctgag ttcctacttc aaattggaca ttgctgtcttt gcttatccgc gctctccttc 180
 attcattgct gggccttgat tattttcttt gtcaaactgg atagcaaggc atcatgctca 240
 gtcaaccatt tgttggatca agtggcctcg gaataattaa gaaggggtggg ttgaattaat 300
 tatgaacgtg tcttgactaa ttaaaaattt attcttctta atgttactag attcaattag 360
 gctctactac caagntatac gatagtagag aacagaaaata ataact 406

<210> 4601
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4601

agcttgtgcc tctttatgtc tgggatatga atgtagcata tanatccaaa gacccttatg 60
 tgctatgctg atggcttctt cccattccaa gcttcaattg gagtcttgct ttttacagac 120
 ttagttggac atctgttgag tatgtaaaca acagcgtaca ctgcttcagc ccagaatgtg 180
 ttcggtagtc ctttttcctt gagcatcaat ctagcaatct ccataactgt gtgattcttt 240
 ctctcggaca ctccattttg ttgaggagaa tatgcgactg caagtagtcg ctcaatgcct 300
 tcctcctcac aaaatctttc aaactcgcga gaggtgtact ctttgtcgcg atcacttctt 360
 aatactttta t 371

<210> 4602
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 4602

agcttgtagg ttaaagtctc acgattgtca cgtgttcacg cgacaattgc tagacgtggc 60
 tatacgagac atcttgccaa acaaagtcaa gttaacgata actcgcatgt gctttttctt 120
 ccattctata tgtagcaaag tcattgatcc agacatgttt gatgagttgg aaaatgaggc 180
 cgcaattata ctgtgccaga tggagatgta tattccccct gctttctttg acatcatgat 240
 tcacttgatt gtgcatctgg tcaaagaaat caaatgttgc cggcctgttt atctacagag 300
 gatgtactct ggtgagcgac acatgaagat ctcataaggc ttcagagaat ctattcgtca 360

gaacatctat tgtgagaggt catttacaag aaccattgat tttgtcaaact act

413

<210> 4603
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4603

agcttgctaa cccatggaag ctctaatat ctcccacact ttntgggggtg ggccattctt 60
ggatggcctt gattttctca ggggtccactt ggaccccat tctaccaact acaaaaccta 120
agaaaactat attatctaca caaaagttac acttctctat atttgcatag aggggtgtttt 180
tcctaacgac tgaaagaact tgtctgagat gtcctaagt atcatctagg ctctactat 240
aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300
gatgcataag cctcataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
attcatacaa accaaa 376

<210> 4604
<211> 418
<212> DNA
<213> Glycine max

<400> 4604

agcttctgca ctatcctttc cccacttgaa accctctttc tttaacagat tagtaagtgg 60
tcttggtatc ctgcatagc cttcaataaa ccttctataa taccagcca aaccaagaaa 120
tccttgact aatttcactg ttttaggcac aagccatttc aacacaacat ccactttctt 180
cctatccatg gtcacgctg ctccagaaat gatatggccc aagtattcca ctttttttct 240
accaaagctg caccttttga aattggcaaa gaactcattc agaattctgta gtgttaggac 300
taatctaagg tgtccaaatg cgctcccaa ctagcactat acaccaatat atcatgaacg 360
aaaactaaca cattttctga gaaatgcgtg taaagtggaa ttcatagcac attgaaat 418

<210> 4605
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4605

atagtctcat actgtttgtg gtttttataa gttttcacat agcagataat gactgttcaa 60
tactgaagga ataaagaana ataagtgact gtatgcataa ttacatacca gaacaagtcc 120
aataatattt gtaggctgct cataatagac aggaactctg ctatgccctt tctccaatat 180
tggattcatc aaatccctgc ttaataataa gcattcagtt ggatgacaaa atgctgtata 240
agatagaaaa gctagtttga acttghtaatt nttttgagtc acaaataagag tccataccta 300
tcaagcttta cattaatatc aatagaaaat atatcagtta tgggagtcac ggcataccta 360
gctatctttt catagagtcc ttacctgtag gctgtaagga atagaataga agaanaacca 420
ataccctcaa ataatagatg agaaactcac ctaat 455

<210> 4606

<211> 441

<212> DNA

<213> Glycine max

<400> 4606

agcttatata tcaaagatct gacaatgtag aagttgttgg ctactcagac tcggattttg 60
ctagttgcgt tgactctcac aggtcggcat ctggatacat cttcatgatg gctaacggag 120
caatatcttt gagaagtgcc gaacaatcat tagtttctac ttctaccatg gaggctgagc 180
ttatttcatt atgtgaagtg gcatcacagg gtatttgggt aaaaagtttc atagtcggac 240
tacaagtgat ggattctatt catagacat taaagatata tagtgataat tcagctgctg 300
tttctctagc taataacaat aaaagtggaa gtcgaagcaa gcacatcgac attaagtatt 360
tagccatgaa ggaatgtgtc atagcaaatg acatcatctt cgacaacatc attattgaac 420
taatgattgc agatccattg a 441

<210> 4607

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4607

gctaacaata aagatcttct ctatgatagt ctataaaaga ttcagacata aaaatgcaca 60
ccatatactc acctcaacat tatccccata cagattaagt atatggtttt cattattaaa 120

aacttgggca gggtagctgt ttctagcatt acatgccatg tcatctgcta gcatgagtat 180
aatcctctca tccgggtatct ctagccgttt aactgtcctg aatgagaaag aagttaaaga 240
ccaataatac atcattgtca agcataattc aaacaattta aaaaagaaaa aaaggctaaa 300
gttgatatac tacctataca atgacagggt attggccata tgccgataat taaacctgaa 360
caagggaagc agcacattta gtatactatg catgccatac aacaagaaac ctacatgtaa 420
aatataattc anaatacctc tgtaagacac at 452

<210> 4608
<211> 444
<212> DNA
<213> Glycine max

<400> 4608

tcattaggct atctatggcc tcaaacaagc tccaagggtg tgatttgata gactcaaaga 60
gactcctact gaagtttgag ttcatatcca gcaagtgtga tcccactttg tgtactccaa 120
gggatcatct actatctaca tgctagtata tattgggaaa catccaagtc ccaaatcgac 180
tagagataag gccaatatag aatatataag tggggggcaa ccctcatcct ttaagctaac 240
ttttagggtt gagttagact tgaaccaca ttctaagatg atattagaac ttatcttaga 300
tctattaaaa gggagtcacc caccatatta tccatgctcg aagcacaaac gtgttgggag 360
tgaggggatg tattgtggaa aaccaagtc ccacattggt tagagataac gccagatag 420
actgtataag tgagggatca ccct 444

<210> 4609
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4609

ntacattact cctcatgctt ctaccatgt ctaataagggt tctatttctt cgttctgcca 60
caccattctg atccagagaa ccaggcatag tgtattgngc aacaatccca tgttcttgaa 120
gaaatttcgc aatgaacct ggtgcttgtc catcctctgt gtatctacca tagtactccc 180
caactctatc taatctcagc atcttaattt gttttccaca ttgtttctca acttcagcct 240

taaaaacttt aaaggcatct aaagcttcat tcttagaatg aagtaagtag agatacatat 300
 atcgtgaata atcatctata aaggttatga agtatttcgg actatttgca tccatgtctg 360
 gacaacatat gtctgtatgt atgatttcta ataaa 395

<210> 4610
 <211> 235
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4610

cttgattgcc taggtgtgga cctcaagtg caatcctcca ttctncactc ttntcggagc 60
 cccatgaatg tcattgccta gcgctattca tgtgtcctcc atcttcgagt ctggagcccc 120
 gcggatgtca ttgcctaaca ctgttcgcta attctccatt ctccactttt attcggagct 180
 ccatgaatgt cattgcctac cgtgttcat gtgtcctcca ccttcaagtc tggag 235

<210> 4611
 <211> 432
 <212> DNA
 <213> Glycine max
 <400> 4611

agcttgaggt taatcgtaaa actgcaaaga catgaccttg tgagagggtt accaagaatg 60
 tcatacaaag ttgatttact ttgtgaagca tgtcaggaga ggaaacaaat taaaacctct 120
 ttctcaagca aaaactctat ttccacctaa agaccacttg aattattaca tatcaatttg 180
 tttggtccaa ctagaacaac ctctgtcagt cgaaagagat atagtctggg agtagtggat 240
 gactactcaa gatggacatg ggttatgttc cttgctcaca agaataattc cttagagatc 300
 ttctttaaat tctataaaaag gattcaaaat gaaaagggag tatgccttac ttcaataaga 360
 agtgatcatg gtggagagtt tgaaaatgag aactttcatc tattttgtga agaaaatgga 420
 attctttata ac 432

<210> 4612
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 4612

taagcatgat aaagatattg agcatatatg tttcaaagat attaattgttt acatgattga 60
tatgaaacaa caattatctg attatgggat tgtattatac catattccca taaaatgtga 120
caacacaagc gccataaata tatctaagaa cccaatcttt cactctataa ccaagcacat 180
agaaattacg catcattttc ttagagatca tgtcctacaa ggtgactgtg ttctacaatt 240
tgtagatacc aaaaatcaac tcgcagatat cttcacaaaa ccactaccca aagattcctt 300
ctacaccatt agaagagaat taagacttnt agatgccaat gacttagaca aatgatctat 360
tctatgttat gatgactcat cacttgttta atacacatgc tcttattatg ttttgtgaat 420
aatgtctgac atctatgtcg tcatttattt tctg 454

<210> 4613

<211> 291

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4613

agcttgtcaa atagggaagc gagttaaaaa attctttcta agcaaaaacg ttgtttctac 60
ttcaaaatcc cttgaactac ttcacattga tttatttagt cctcaagaa caatgagttt 120
agggtggaat tactatggct tagtaatagg ggatgactac tcaagggttca cttggacctt 180
gtttttgaaa acaaaaaatg aagctcttaa tgctnttcgc acacttgcca aggtgattca 240
aaatgaaaaa ggtctcaaca ttgtttcaaa ataagtcttt tgaaatattt t 291

<210> 4614

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4614

ntgatgcaat cttctcatcc ttaatgggtg tctcatgtt gtatgcatag ttctccaaag 60
cattctttgc gtcgaccttc ttcttgtgct cctcatcttc ggccttgtag ttctccgcct 120
cttggaccat cttctcaatc tcaccttcg atagtctacc cttgtcgttg gtgatggtga 180
tcttgttctt ctgcctgtg gtcttgcctt cggcagagac attcaagata ccattggcat 240

cgatatcaaa gcagacagta atctgaggaa caccctgcg tgctggggga atgccagaaa 300
gctcaaattt acccaacaag ttgttgcccc tggttctagc tctctctccc tcatacacct 360
gaatcaagac accaggttgg ttgtctgagt aagtagagaa cac 403

<210> 4615
<211> 458
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4615

ctataaaact aagcttcgac atgataatgg agacacatga acagcgctag gcaatgacat 60
tcatgggtgct ccgaacaaag gcgagagtatg gaggattggc ttgaggggtcc acacttancg 120
aattatgaaa ctcagctcca aactcgaaag tggaggacac acgaacaacc ctaagcaaga 180
acattcatgt ggctccgaaa aaggacgaga atggaggatt gccttgaggg tcctctctta 240
tgcaatcatg aaacacagct ccaaactcaa aagtggagga cacacgaaca gccctaagca 300
agaacattca tgtggctccg aaaaaggacg agaatggagg attgccttga gggtcctctc 360
ttatgcaatc atggaacaca gctccagact cgaaaatgga ggacacatga atgacaacgc 420
aattcattca tgtggctccg gaaaatgatg agaatgga 458

<210> 4616
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4616

tgtgcatcca ataccctgat gaggatgtcc tatatgttct tatacaggac tgatccatgt 60
gcttccaaag tttcatggcc ttgaaggatga agaccacac aaacatctga nagaattcca 120
tattgtttgc tccaccatga aacccccaga tgtccaagag gatcacatat ttctaaagac 180
ctttcctcat tctttagaag gaatggctaa cgactggcta tattaccttg ctccaaggtc 240
catcacgagc taggatgacc tcaagagagt attcttagaa aaatttttcc ctgcttcag 300
gaccagtc atcagaaagg atatttcacg tattagacaa ctcaatggag agagcctata 360
tgaatactgt gagaggttta aaaaattatg tgcccgttgc cctcaccacc agatt 415

<210> 4617
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4617

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 gcaagaggct ccaagaagat tgnngctagag ctgctgaaga aggccctagg gttctcatgc 120
 aacttanggt agattttctga gcccatgggc caaggttggg tccaattatc tttgtacata 180
 ttagactagg atgtcattat atttggctct tgtatttagg gctccatatt gtaggtaggg 240
 taccctagaa atataggatt tttcaaccct tgtatttttg ggcacctaga ctagtttttg 300
 tattaggggt agttttgtaa tttcacatgc actaagtga tatttgatgt gtgtgggttg 360
 aaataaattt aattgaattg gtagaagccc aatccaatta aattntagag ggggaggtga 420
 gcatttgctt actacacccc attgccacat catatagtca ca 462

<210> 4618
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 4618

agcttcccg c catggtattg aggttaatga ttccattgct tcttttagat ttaaggaaaa 60
 tactgttgat cgatgtatat atctgaaggt cagtaagagt aaggttattt tctaattttg 120
 tatgttgatg acattctgct tgcaactaat gatcttggtc ttcttcatga aattgagaag 180
 tttctctctg gtaactttga aatgaaagat atgggtgagg taagatattg tgatatggat 240
 agaaatattc cataatatat cacaaggatt gttagactta tctcagaaag catatatcaa 300
 taaagtatta gagagattta cgatgacaag gtatttttag catcacctat tccaatttag 360
 aaaaggggaa aatttagttt tgcacaatgt cctagatatg atatggaatg aaaacatatg 420
 aaag 424

<210> 4619
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4619

tanacattca atttcgagcg tctccatata ttacgcgact caatcagaca tctgagtaaa 60
aagctattgt cgtttgaatt ggctcagagg ttcaacattn caatttgagc atctcgatat 120
attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcagag 180
ctttaacatt caatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagatatt gtcgttctaa ttggctcaga ggttcaacat ataatttgga gcgtctcgat 300
atattatggg actaaatcag acatccaagt aaaaagttat tgcgtttga attggctcat 360
aggttgaaca ttcaatattg accgtctcga tatattatgg gactcaatca gacatccgag 420
taaaaagtta ctgtcgcttg aataggctca t 451

<210> 4620
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4620

agctntaagc caattcatat ttctataact ntttactcgg atgtctgaat gagtcccgta 60
atataacgaa acgctcgaat atgaatgttt aagctttgag ccaattctaa cgataataac 120
tttttactcg gatgtccgat agagtctcgt aatatatcga cacgctcgaa attgaatggt 180
gaagctctaa gcctattcaa acaacaataa cgttttactc ggatgtccga ttcagtgcag 240
taatatatcg cgacgctcga aattgaatgt tgaacctctg agccaactca aacgacaata 300
actctttact cggatgtctg attgatgtcc gtattatcgc gagacgctcg aaattgattg 360
ttgacctctg agccaat 377

<210> 4621
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4621

tgaaggcctc catgtaattn gaatggcact tgctgcatga cttttaattg atccgannaa 60

atgtatggac tagtangaac tnttgacata caaatntgt gtcacagtaa cntntntttt 120
agaatattta cagcatttcc ttttcattac aaaccagttt attcagattt acaaaatttg 180
aattaattaa aattatttgg aagaaatgtt cctgataaaa tcgcgtcaat aattntaaaa 240
tatcactacta caatatggaa aatgatttgg aagaaattat ttggagtata tgattgggtga 300
catatcttca tggttatata agtgcttttt acgaaatctc ttttaattgcg tggtaagaaa 360
atgagttaaa ttcaattatt ttttttataa actntcctag atgattgatg gaatttcaaa 420
taagcgcgtt acaataattc ac 442

<210> 4622
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4622

agcttctata gaaggttcgt tctaatttc tctattattg catcacctct caatgagctg 60
gtgaagaaga atgtggcatt tacctggggt gaaaaacaag agcaagcctt tgctttgctc 120
aaagaaaagc ttactaaggc acctgttcta gctcttcttg acttttctaa aacttttgag 180
ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg taagcaccct 240
attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300
gagctntatg ccttaatatg agccctccaa acttggaac attacctttg ttccaaggaa 360
tttttcattc atagtaatca tcaatcactt aagtaca 397

<210> 4623
<211> 427
<212> DNA
<213> Glycine max

<400> 4623

agcttgaatt ataataaaa cataagcatg atattaaata ataaaaaac tataaagctt 60
cacaaaaata aagaggataa tacctcttta ataataaatc tcagaacgtt agaaaattct 120
ccaactgttg gcactccctc tggctactca aatgccacaa aggtctgtcc acgtgaatca 180
taaggaagag acctgagagg cttggagaac acctctgaga attcatctgc atctgaagca 240
tccacagtca caataacctg taatagagaa aaataattac aaagaccttg gagttggatt 300

attttatgaa aaattcgaag catctataat attcattaca tcttccaaca attgctctgg 360
 tatcgtgttt gtgcacttgt actgaaacac aacatgccta tcataaatgt gtttaatgac 420
 attaact 427

<210> 4624
 <211> 356
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4624

cgtanagcag gaagtatggg tnaaggaaat gtaagaagag atacagacga tcgagacaaa 60
 caacacgtgg gagttagtaa accgtcccca tggaaaatat atcattggggg ttaagtgggt 120
 ctataagaca aagctcaacc ctgatggcac catacagaaa cacaaggcaa ggctagtagc 180
 taagggttac tcacagcaac ccagaattga ctacaatgag acatttgcac cagtagctcg 240
 tcttgatacc ataagagctc taatagctct tgcgtcacat aaaggatgga gtatccatca 300
 actagatatc aaattcgcct tccttaacga cgtacttgaa gaagatatct atgtgg 356

<210> 4625
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4625

tatgctgcan atatatacaa tagacctnct caacctcagc atcanaatca accacagcat 60
 aacaattatg acctctccag caacagatac aaccttagat ggaggaatca ccctaaattc 120
 agatgggtcca gccctcagca acaacaacaa cagcctgctc cttccttcca aaatgctgct 180
 ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacag 240
 ccaacagttg aggccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcaaca agagactaga gcctccattc agagcttaac caatcagatg 360
 ggacaattag ctaccaatt aaatcaacaa cagttccaga attctgacaa gttgccttct 420
 caagcctgtc aaaatcccaa aaatgca 447

<210> 4626
 <211> 426
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4626

agctntatct ctgccattat taagatctgc ccatccacca tatttgatg ttaaaattct 60
 aaccataac tgattttgat tagaggataa agcccatatc catcttccca tcaaagctgc 120
 attaaatctg gtaatatcct taatcccaag tcccccatcc tccttgggga ggcaaatgac 180
 ctcccacttc acccacacaa ttttcttgag gtcttgagaa cccccccaca gaaaatttct 240
 ttgtagagat atcaatttca gaactactct ttgtggaatt ttaaaaaaag ataggagata 300
 tatgggtaga gcagttaata ctgaatttat caaagtaacc ttccctgcca ttgataggat 360
 tttctgggtc cacttagaat aatttgcttc atattttnta atcagcggtt tccacatcaa 420
 gtagct 426

<210> 4627
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4627

ccaccacac ccctctaata ttctaccgct tagactcact ntatatgtaa caaaaataat 60
 ctctttaaaa ttaattaaaa atcatgagtt ctggtaaatt tatttctcat ttaatatataa 120
 tcaagagact caatcatttg agaagcaaaa cctaaaaaaa attataattt tcaataaatc 180
 ttaaccaatt ataaagagaa tataattaaa taacaatcta taattaaata atcttataaa 240
 agtcaacaat ttatgattaa tttatataac ggtgacacat cataataata ttatactctt 300
 tttattaaaa ttagctgttc tatatctaata ttcatgttat gcggatagct taccatatta 360
 tacgtccat caacacttat taatttcttt gttatccttc tctttttatc acattntata 420
 acctattata cttacactgc attat 445

<210> 4628
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4628

agcttgccaa ctccctcact cagtggccga gatatttat tatcctgcag gtatagttca 60
ttcaaattct gtagcagaaa gatgctctct ggaaggcttc ctgacaaatt atttttatta 120
atagacagat gctgcagaga ggaacaatca cccaaatttc gtggaatctc accagaaaag 180
tagttacttg acagttttaa tactcggagc tgagtaaaag aggaacacat agttgtatct 240
atagagcctt caaattgatt attgctaaag tccatgatct ccaagtttgg aagatgaaac 300
aagctgtgtg gaagagagcc agtgaagaga tttttggaaa gcttcaagac tctaagttga 360
tccaaacatg ctaatgattc acagatcttc cctgtaagtt gtgtgcttnc aagttccaag 420
cgaaccaccc tcgtgccaac 440

<210> 4629
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4629

agctntcgag aaatacaa at ggtcataact tttcacactg agctcttatt cagggtttaca 60
atatattgag tcgctcgaaa ttaaaccatcg gaagctctcg agaaattcaa atgggcataa 120
cttttcacac ggatgtccga ttcgagcgca taatatatcg agatgctcga cattgaacat 180
cgaaagctct cgagaaattc aaatgggcat aacttttcac actgaggtcc gattctggct 240
tacaatatat tgagacgctc gaaattaaac atcggaagct ctcgagaaat tcaaatggctc 300
ataacttttc acacgaaggc cagattcggg cacataatat gtcgagatac tcggaattga 360
accacggaag ctctcgagaa actcaaattg tcataacttt tcacacggat gtccgattcg 420
agcgcataat atat 434

<210> 4630
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4630

agctggattg gacctcagtg tgaaaagnta tgtttatttn gaattctcga gagctttcgt 60
 tggatcaatgt cgagcatctc gacatattat gcgctcgaat cggacatccg tgtgaaaagt 120
 tatgaccatt tgagtttctc gagagcttcc gtggttcaat tccgagtatc tagacctatt 180
 atgtgcccga atctgacctt cgtgtgaaaa gttatgacca tttgaatttc tcgagagctt 240
 ccgtggttca gtttcgagcc tctcgacata ttatgcgccc gaatcggaca tccgtgtgaa 300
 aagttatgac catntgaatt tctcgagagc tttcgaatgt taatttcga 349

<210> 4631
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4631

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 attttttaac ctattaaanaa ataattttta aaatcaaatt cttgagatga atattcttta 120
 ttaaatcaac tacgaaaatt tacacttaac ttatgagaaa gaacaattga cctaaaacta 180
 caataacaat taaattatta gagagaaatt actctgtttt atttaagggtt atggtaacttt 240
 taatataaat agaacttttt ttttttgctt aatgacatga gacttaacta atttattaaa 300
 tatgttattt catctagtta atatgagatc gatcaatatt ttcttatgag ttgaagcagg 360
 aaaacttata aaagcatagg ttttacgcat gaattattgt aaaaatttac attatcttac 420

<210> 4632
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4632

tganagtgtg taaccaacca tntctcatt gtagaacacc ggtaacgtgt atactatcat 60
 tgtgatcatc tttttctctg tcattgaagg tgccacttga gctgtcaagt ccctccacct 120
 ctgggcgtat tccgtgaatg actcatgctc ttttttacac atgttttgta gttgcgttct 180
 atccggagcc gtatcataat tgtactgata ttgcctaacg aaggcaacca ttangtcctt 240
 ccaagaatag actcgggaag gttccaagtt agtgtcatat cctaatttcg tccggggatt 300

attacttgac gacatgcaac ctttgattgg ccgtttcaag atacttggca ccctttgttg 360
 cacaatatgt aagtcttgag acgcaccgga agtcaaaagg aagcaggggt atgcatccg 420
 tgaaattccg taatgtggcg gaaa 444

<210> 4633
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 4633

agcttggtgct tacaaaatat cattaaacaa attagattgg cttaatactt taatgttate 60
 atatgcagcc acaacaaaag aaaatgcatg ccaaattcac aagtctgtg ttgcaactgc 120
 ttcgagcata attattgggt tgcaatgatc acctacagta aattgacctt ttcaagggtgc 180
 atgataattt ttctattcct agtgcataca atcaactgaa tccaacatac ccggaatgcc 240
 acatgtatcc tccatttgta gtacgtggcg gaaacattat aacaaatata ggattttgag 300
 aatttttgggt agaagaagg acacaattat gtatataatt gtatgtggag ttgtctgggg 360
 gcggcggaaa catagggaaa aatggatgga aacatttgct gagcacatgt tggcccacat 420
 acaattgtga atcttgatt 439

<210> 4634
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4634

ngatacttgg tactctattc acttcttcaa ctcttgatt tatatttccc acatcaactc 60
 tcacagtgcc tgaattccgc aacagtaata ccattaacac gtctctcttt cgattcacgc 120
 tttgtttgat tgattgcccc aatggccgcg tgtggctata tatctgctgc caacttcaat 180
 catcttggtg ggcgcagaaa cttatccaaa ttcagttctt cggatgccac aatttcgtta 240
 tcatttggcg ggagcgattc aatgggtctt agtttgcgac ccgctccaat tcgtgctcct 300
 aagaggaacc atttctctcc cttgcgtgct gtttgcgtcg attatcctcg accggagctc 360
 gaaaacactg ttaatttcgt cgaagctgct tacttgctt ccaccttccg tgcttcttcg 420
 cgtccactaa aacccttgaa cat 443

<210> 4635
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4635

taacgcattn tacctctaag ggtcttgtaa ttgcataatg gtggtcagtc tctcgatgtt 60
 cccaccatgg tatagcttca atctctgacc atttactatc catgttctgt gcggagtttc 120
 tgactgaggg tcaagtaatt ccacaactcc atatggcttg acttccttca tggatgaatgg 180
 tccagactat ttagacttta atttgcttgg aaacaacttt aatcttgagt tgaacagcag 240
 cacttgttgt cctggcctaa agtccttctt tagcagcttc ttgtcatgat aagcctttac 300
 tttttctttg tacagtctga aagactcata agcattcaat ctcatctctt ccagctccaa 360
 gagttgcaac ttctctntt ccctaataag agcctcatca aaattcagga atttcaaagc 420
 ccagtatgcc ttatgttcca tttctaccag aaagt 455

<210> 4636
 <211> 380
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4636

agctnttaat ggaagtcaag agcatgatat tttcccgata ccgttgacta gtgagcaggt 60
 atatcagcgg gttcaacacc tgaatactgt atttggaag acctaaaaga aggataaaag 120
 tcagagttgc atatggaaga agaggtccat tttttttatc ttccgtactg gtgtgatctt 180
 gacgttagac attgtattga tggtatgcat gtgaagaaaa atgtttgtga cagtgtgatt 240
 aggacactcc ttaacattca aggcaagagg aatgatggct tgaatacccg tcaagatcta 300
 gctgatatgg gtatatgatc acagttgcat ccaaggtctg atgggaagaa aatttacttg 360
 cccccagcct gccatacttt 380

<210> 4637
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4637

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cctctgaagc agtcatcaag cagattcctc gtctcttggg acctggctc aacaaggcag 120
gcatgtttta ttgttttgga ttttgaatct cttttggaca ttttagagag aacttggtga 180
tttgcttggt ttaataactt acatcggtea ttgctgtgtt atttttttgt taatcgttgg 240
tcacattctg ctattacatg ctctgttttt aagtacgaac attataaaat ctttcaagtg 300
gctttctgta tcatatcgaa tatggtatat tagtcctttc ttttccatct agtaagatgc 360
tctgttttaa agatttgata tcttctgggt tttaaatttc aatgtcgctt tagcttgatc 420
tat 423

<210> 4638
<211> 402
<212> DNA
<213> Glycine max

<400> 4638
agcttatgct gcaaataattt acaataaacc tccttaacct cggcagcaaa atcatccaca 60
gaagaacaat tatgacctct ccagcaacag atacaacctt ggatggagga atcaccctaa 120
cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttgct tccaaaatgc 180
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac taccacagat 240
acagccaaca gttgaggccc ctgcacaacc ttccctcgaa gaacttggtga agcaaatgac 300
tatgcagaac atgcagtttc aacatgagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ctggctaccc aattgaatca acgacagtcc ca 402

<210> 4639
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4639

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atgcaagttg aaagccttgg aggaaagagg tatgcctatg ttgttggtga tgatttctcc 120

agatttacct ggggtcaactt tatcagagag aaatcagaca cttttgaagt attcaaagag 180
 ttgagtctaa gacttcaaag agaaaaagac tgtgtcatca agagaattat gaggaccat 240
 ggcagagagt ttgaaaacag caagtttact gaattctgca catctgaagg catcactcat 300
 gagtttcttg cagccattac accacaacaa aatggcatag ttgaaaggaa aaacaggact 360
 ntgcaagaag ctgctagggt catgcttcat gccaaagaac ttccctataa tctctgggct 420
 gaagccatga acacagcatg ctatatncac aacagagtca cactta 466

<210> 4640
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4640

agctntgaag aactcatgct gccattttat aagcacaact ttnttttgtc attcataaat 60
 tagcagaaga gtttaattac tgagtttggt cttagaacgg attccagttc atgatgaact 120
 tataaatgac aacatagtc taacttgaat cttataatat tcccaaatta ataattctga 180
 attatcttcg gtgttatttt aaataaataa gcaatttgat attttcctat atataaagtt 240
 tagaacaagt tgccctgaca ttccttggtga ttttttaaaa ttgcacacaa tacttctatc 300
 taacgtttac actaatcttc ttataggaat acatgtgtaa tatttttctt agagaagaaa 360
 tgtcaatata atctatttca aacattnttt tatataacaa tctatttcaa acaattaaag 420
 atagggattt aaaggacaaa aa 442

<210> 4641
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4641

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 gtaagatgtc atttgctttc agcttgggat tgttctgcct gggtagctac ttatgcatta 120
 tatttgaag aaagactcga atgtttccag gttctgaact atgatattga agctgagcgt 180
 ctagctaagc ctgttgctgg ggaggacaag gtaattttct ctctcttgga taaaataaga 240

gatttattac aatgaagtga gtgggaaggt aatttcatta agctatgatt atacttttgt 300
 gtgatattca atcaagtga aagcatctat gacagttttt gcatggaaaa atgaatacag 360
 aaactacctt atctccttta catgtaagat atataagtat ttaattotta ggcattntat 420
 tggttgttct ttaggttctc agacctacat gactgtcata aatattaata g 471

<210> 4642
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4642

ntgatgggtg cgagaagaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60
 gtatgtatac atgattntga tgatgtcaaa gaagaatcta acaaggctgc ttcaaagat 120
 aagcatttgc ttcaagaata attcaagatt gcttcaaca acaaagcctt gtttcaagat 180
 tcactaaaga ccaagccttg cottaataa aagtgtttc aagacatgca aggcctctggt 240
 aatcgattac caggaagtgt aatcgattac ccgaagacag ggttgagaaa tagctgttga 300
 aaaatgtttt gaatttgaat ttccaacatg taatcgatta ccatatgtct gtaatcgatt 360
 accagcaacg aaactttgga aattcaaatt caaaagtcac aacccttcac attataactg 420
 tgtaatcgat tacacaaaca ttgtaatcga ttaccagt 458

<210> 4643
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 4643

tcattgttaa ctatgtatgg caaaacttca ttactgttgt tcaagacata caagtgagct 60
 tgtaacaaat cttctacact tggagtgate acctgcagtc ctcttgaacc cttaccaccc 120
 actctgtcat catgccgaga ctcaggaagc ccaacaggtt tagccttctc taagtattct 180
 gaacaaaatc caatggcttc ttctacaatg tacctctcaa caatagatgc ttctggacga 240
 tatagattat ttgtataccc ttttaagatc ttcatgtatc gctcaaccgg gtacatccaa 300
 cgtagataaa caagaccaca acatttgatt tctctgacca gatgcacaat caagtgaatc 360

atgatgtcaa agaaagcagg gggaaaatac atctccaact ggcacagtat aattgcgggc 420
tcattgtcca actcatcaaa catgactgga tcaatgactt t 461

<210> 4644
<211> 405
<212> DNA
<213> Glycine max

<400> 4644

cctttctttt ctcatgtgca ctcaaacca agctgctggt tcgaagacaa ccatttttct 60
accttagatg gcttgtgtag catagctatt acttttcctc tcaatttgat ctttgactct 120
ataatgaagc ttcttcacat agtccgctt tgcttgacct tctttatgct taaaaacaga 180
aacattaggc ataggcaaaa gatcaagagg agttagtgga ttaaaacat aaacaacttc 240
aaggggtaag aaagaagaat catcggtatga cgccgatcga acatttgcta atagacatca 300
tccacatatt attcagggat tgaatagaag atacaatagc cgacatcggc cgttgtaaat 360
cagcgactga tatttttcat ccgacggtgc gcaatttctt ttaca 405

<210> 4645
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4645

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acagattacc ttctcaatct gtccagaatc ctaaaaatgt gagtgccatt gcattgaggt 120
caggaaagca atgtcaagga cctcaaccag tagcatcttc ccattagta aatgaacctg 180
cccaacttca ctctactcca aaaaaagagg atgacaaaaa tttaaagagt aagttgccta 240
acaatttcta tgcaggtgaa tcttccactg gtaattctga cttacagaag tagcatatcc 300
ctcttccatt cctccaaga gcaatttcca acgaaaaaat ggaagaggta gagaaggaga 360
tcttgaaac atttataaga gtagaggtaa acatacctct gctagatgca atanagcaaa 420
ttccaagata tgctaaattc ttg 443

<210> 4646
<211> 402

<212> DNA
 <213> Glycine max
 <400> 4646

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 aaaatggaga aagaagaaag atgattggag acgccacttc aaggagaaga tgagtcaaga 120
 acaagcttac caccataaga agcaatggat aaaaacttga aagtaggaga agaatagtgg 180
 agggggaaga agaaaaagag cacagaatth tatgcctcaa atgaagtcta aactttgaag 240
 tgtaattctc aaatgatcaa agttgaaaaa atgcatacac aaggcctcta tttatagcct 300
 aagtgtata caaaattaga agaaaatttg aatttctatt caaatttcac tcgaatttga 360
 atttgtggag cccaattttg aggtcaaatt tctaatta tg 402

<210> 4647
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4647

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 gcagagaatg ggatgttcaa agtcttaaca tagtgattt gcaagcataa tgatgccagc 120
 tttttttgcc tttcttgatg aaaatattga cttaaaaaat taccctgctt tangtggag 180
 tgactgatgc tgctattctt gccctaatag aaaactactg ccgagaagca ggggtcagga 240
 atcttcaaaa gcacatagaa aaaatttacc gaaaggcttg ttaatttggt tttttaggtc 300
 aatacagtca acttttagtt actgacagtg aaaaggctat gttgtatatg gttgaaaaga 360
 caaccactca tgatttgatg gtttcaataa ttttggtgc ttatttcata actatatctg 420
 aatttgaat 429

<210> 4648
 <211> 507
 <212> DNA
 <213> Glycine max
 <400> 4648

tgatgtgtca ttattttctc ctatttctta accctttttg tcaccatttt aattactgat 60

tagccttaat tgtcaaatta attatgcagt tttatcattt gggcctactt gactaatTTT 120
 gtgtttttta tttaatTTTca ggagaattat aagcaattgg acttgaatcc agaattgagc 180
 ttggacttga agagagcata caatTTTtatt tcatcaaatc ttatcttata caaatTTTtat 240
 ttcacttaga ttttatttTcg tccagatttt atttcatcca atcttatctt atcttTgtcca 300
 gattttattt tatttcgTTT atgggcttgg actcaaaaca gatttTgaag ctttggggTt 360
 gaggacctat ataacagcac cagggtTTTta gtttagagag agttttTgga gaggagaata 420
 attttagggT tttgcaattc cagttttTtac tggTcatgcc cactggTcat gtagcaataa 480
 aatttTgttt ctgcaaattc cgTTTtc 507

<210> 4649
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 4649

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 gaaaatgttg gatcgagagg cctcaaaata attaaaaaag ggggtTgaat taattattcc 120
 taaaccctta ctaattaaaa attactcttt taaggctTTT actaaattgt taaaagaacg 180
 aggagtagaa gagaaactta acaaaaagta aaagcggaaa ttaaattgcac agcggaaagt 240
 taaagagtat agaagaagga aacaaacaca caaggatttt tatactggTt tagcaciaaac 300
 ctgtgcctac ctccagtccc caagcaacct gcggTccttg ggatttcttt caaccttgta 360
 aaaaaccttt tacaagcaaa gatccacaag ggatgtacac tcccttgTtc tctttgaatc 420
 tagtggatgt accctccact agaactgat 449

<210> 4650
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4650

agcttctcac cccttgccc agggtagana ccctTTaata ggaaccaagt tagggTgcct 60
 taccctcca agaaattgaa tcatctcatc caattcctca ccccttgag tgcacactgg 120
 cctcagaac ctaagcagcc tcacctgtt gctcctttgc aacaaagcct tgtacagtgt 180

tccatagttg gattttccaa tcacttcacc aggagcatcc aaaatgtcac atattgtaag 240
 gtcctctcca ccttgaaaga tcatcaaata ctccttctgt gccacatcct cctccttgtg 300
 ttctgaactc tcaatgtctt tactctcatc atactttgac acccttctct tgcaatagaa 360
 cacataaact gcaacaaaaa ctaaaaaagt agctgaagct agtccaagca ctagtatcaa 420
 cat 423

<210> 4651
 <211> 524
 <212> DNA
 <213> Glycine max

<400> 4651

cagcttatgc tgcaaaacat ctacaacaga cctcctcaat ttcaacagca aaatcaccca 60
 caacagaaca attatgacct ctccaacaac aggtacaatc ccgggtggag gaatcattcc 120
 aaccttatat ggtcgaatcc ttcacaacag tagcaacaac aataatagcc ttattttcaa 180
 aatgtcgttg gcataagcag accataagtt cctccaccaa tccagtagca acaacagcaa 240
 caaccctata aatagcaaac agttgaggct cctccgcaac cttcccttga agaacttggtg 300
 aggcaaatga cgatgcaaaa catgcagttt taacaagaga ccagagcctc cattcagagc 360
 ttaactaatc agatgggaca attgggtaca cagctaaatc aacaacagtt ctagaattct 420
 gatagattac cttctcaatt tgcccaaaat cccaaaaatg tgagcgtcat tgcaattgac 480
 gtcgcgaaaa cagcgtcaag aacctcaacc accaacattt ttcc 524

<210> 4652
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 4652

tagcttcaac aacagcccgg aactgatcct tacattatcc cacagcagct taaaacccaa 60
 ccaataatgc tgcaaggctg acacaaattc ccctcttcag tgaaccagtt tttttgcca 120
 atccttcttg cagcagcgac aattagcaca ccaaaacacg caataaccaa ccattgacga 180
 ataaacattt cactgcttca aatttctatc taacaaattc aaaagccga gctgcaattt 240
 ctatactcta aacaaaactg taacctcaat ttaaaatcaa atgcactctc aacccgaaat 300

gcaacaatca gcaaactaa acgccaatc accaacgaac aaacatttca ccgtttttaa 360

tttcaatctg ccacaacaaa tagcaattgc cgccccaaac ctacaatttc aaa 413

<210> 4653

<211> 389

<212> DNA

<213> Glycine max

<400> 4653

tggggtcctt tgtttcccat tcccctctca gctgggtgaat caccagtgtc gagtccccgt 60

atactttgag cagtttgaca ttagagtcaa ttgccgcctg gacgaccaag gcacacgctt 120

catactcagc catattgttg gtgcagtcaa accccagcct ggccatgaaa ggtacacatt 180

gattgtttgg agagaccaat actgctccaa tgccatggcc tagaacgttt gacactccgt 240

caaacaacac ggtccacttg tcccgatcct cgtctagctt tttctcaaat aaggccataa 300

tgtcctcatc gggaatttgg gatgcatggg ctgatagtcg ttgagaggct gctgacccaa 360

taatctgcca ggcgcttctt tatcgctt 389

<210> 4654

<211> 529

<212> DNA

<213> Glycine max

<400> 4654

tgaacaccta ttagtattta ttttttttaa aaaaaatag tatgacatca actcgccatt 60

ggctcccagg ttagtggatt aagctaaata gaccaatata aactcacggg ttaagtcacc 120

taaccatttg atccaaagtt tacattgtca cctctacatt agtgactttt tgttgccctt 180

gtttccttta agctttttgt gtataaaaat atattttttc ttgtgtgaaa tatttgcttg 240

taattcagtt ttaactatat aataaaattg atggctaagt ttaatata tttaaacaga 300

cttgatcatt tgattatgag gacttgata aaatttatat tcttcaaagt tttgttaata 360

taactcgta aacataattc tttttttata aactatgaaa aaatacaaaa tttatatgaa 420

ttcaagctca acacattaaa acaagtacca accaatacta tcataccttt gacattttta 480

aaactaatgg caacaaaata atcaatggga tcataatagt ctaaagatg 529

<210> 4655
 <211> 479
 <212> DNA
 <213> Glycine max

<400> 4655

ttgttagcac atcctttgat gcatgatgac attattctca gtgttcaaca atccaacttg 60
 gttttgaaaa tgaagggttt agcttttgta ttttgtgaaa tgtgatacat atatattatc 120
 cctttaaaat gtaagaaatt actaatTTta aaatgTTaga aataaaacca attttatcta 180
 aattttaaag aaccattttt ttgtttgttg aataacaaga gctaccagcc ccaactagaa 240
 cataatacac tcaatatttt aactatagat taatactaata aagatcttct taaacaaatt 300
 aagtctcaag tttaaaaaaa aactcttaata taatattatg ggggggtttat tatataggct 360
 attggaaatc tgaaagtTTa attctattgg aaggTccttt atattcaatt aatggaagca 420
 attaatTTat atctcttgca tgccggaata ttactTTaata atcaatagtg gcctTTTTt 479

<210> 4656
 <211> 231
 <212> DNA
 <213> Glycine max

<400> 4656

tcataacata cttcttgacg atggagcttg tggTgactaa taactTgtgt acaaaccat 60
 attttctgca tgaagcatct tgggtacgct ctattattgt cgtttttcgg cgcaatcttc 120
 ctattattat tagccacaga tttgtatggc ccgctttcta ttgtctaaca gcttggtatt 180
 ctgacgcac aaacctatgt gaatctgact tgcttcttgt gaagagagca t 231

<210> 4657
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4657

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 tagcatcact tctgacacta aattgttggg agttggaagc catcttctca attaaatttc 120
 tggcttcac aggggtcatg tctccaaggg ctccaccact ggtagcatct atcatacttc 180
 tttccatggt actgagtcct tcataaaaat attggagaag aagctgctca caaatctagt 240